

WETLAND DETERMINATION SUPPLEMENTAL FORM

Project/Site: Chicago O'Hare International Airport (ORD) City/County: DuPage/Cook Sampling Date: 9/24/19
 Applicant/Owner: City of Chicago State: Illinois Wetland #: SE19-136
 Investigator(s): Brauna Hartzell, Kim Shannon, Conor Makepeace, Mead & Hunt, Inc. Section, Township, Range: _____
 NWI classification: PEM

Are climatic hydrologic conditions on the site typical for this time of year? Yes ☐ No ☐ (If no, explain in Remarks.)

Are Vegetation ☒, Soil ☒, or Hydrology ☐ significantly disturbed?

Are Vegetation ☐, Soil ☐, or Hydrology ☐ naturally problematic?

*Area mown regularly;
Road construction*

ADDITIONAL VEGETATION - Use scientific names of plants

Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status	General location within wetland
1.				<i>shallow depression around a drop inlet within cloverleaf of I90 west</i>
2.				
3.				
4.				
5.				
			= Total Cover	Other Notes <i>- saturation at surface</i> <i>- Geographic for</i> <i>- FAC Neutral</i> <i>- Depleted matrix</i>
Sapling/Shrub Stratum				
1.				
2.				
3.				
4.				
5.				
			= Total Cover	
Herb Stratum				
1. <i>Persicaria maculatum</i>	<i>X</i>		<i>FACW</i>	
2. <i>Elaeagnus obtusa</i>	<i>X</i>		<i>OBL</i>	
3. <i>Echinochloa crus-galli</i>			<i>FACW</i>	
4. <i>Diplazium fasciculatum</i>			<i>FACW</i>	
5. <i>Sol. sempervivans</i>			<i>FACW</i>	
6. <i>Trifolium pratense</i>			<i>FACW</i>	
7.				
8.				
9.				
10.				
11.				
12.				
			= Total Cover	
Wood Vine Stratum				
1.				
2.				
			= Total Cover	
Remarks: (Include photo numbers here or on a separate sheet.)				<i>Pics 2:10</i>

WETLAND DETERMINATION SUPPLEMENTAL FORM

Project/Site: Chicago O'Hare International Airport (ORD) City/County: DuPage/Cook Sampling Date: 9/24/19
 Applicant/Owner: City of Chicago State: Illinois Wetland #: SE19-137
 Investigator(s): Brauna Hartzell, Kim Shannon, Conor Makepeace, Mead & Hunt, Inc. Section, Township, Range: _____
 NWI classification: PEN

Are climatic hydrologic conditions on the site typical for this time of year? Yes ☐ No ☐ (If no, explain in Remarks.)

Are Vegetation ☒, Soil ☒, or Hydrology ☒ significantly disturbed?

Are Vegetation ☐, Soil ☐, or Hydrology ☐ naturally problematic?

*Construction at parking lot;
rutting*

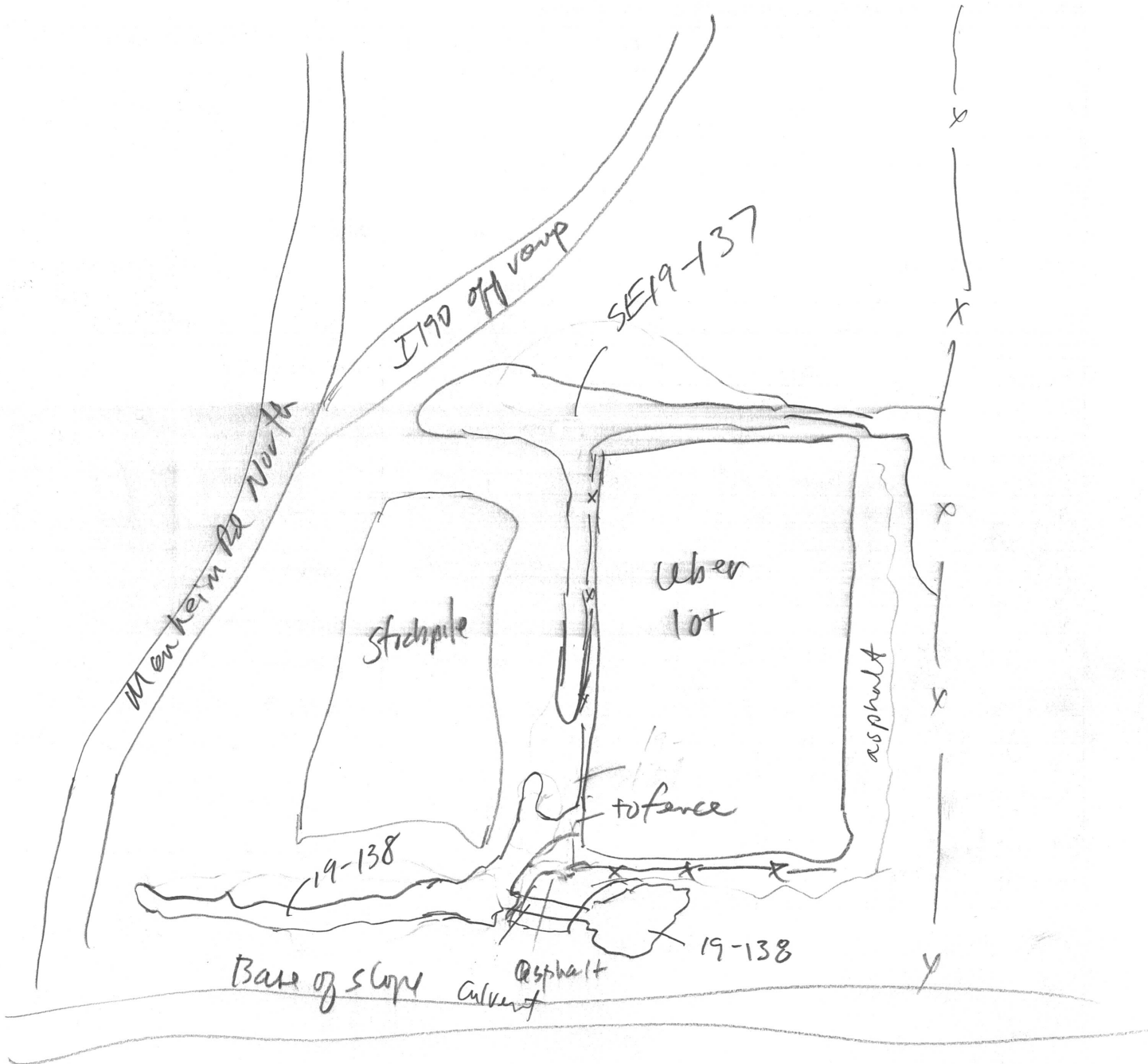
ADDITIONAL VEGETATION - Use scientific names of plants

Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status	General location within wetland
1.				<i>- Depressure against fence on east side of Urban Parking Lot</i>
2.				
3.				
4.				
5.				
			= Total Cover	Other Notes <i>- Asphalt slope from parking lot</i> <i>- run off</i> <i>- Depleted matrix</i> <i>- Geomorphie position</i> <i>- some standing water</i>
Sapling/Shrub Stratum				
1.				
2.				
3.				
			= Total Cover	<i>in ruts</i> <i>- extends around north side of lot to west and into a flat area north of stock pile</i>
Herb Stratum				
1. <i>Phragmites australis</i>	X		FAEW	
2. <i>Spartina patens</i>	X		FAEW	
3. <i>Symphy. subulatum</i>	X		OBS	
4. <i>Eupatorium serotinum</i>			FAEW	
5. <i>Dipsacus lacustris</i>				
6.				
7. <i>Symphy. subulatum</i>	X			
8. <i>Eleocharis palustris</i>	X			
9. <i>Echinochloa crus-galli</i>				
10. <i>Bearded Sprigletop</i>				
11. <i>Hordeum jubatum</i>				
12. <i>Bolboschoenus pumilus</i>				
<i>Phragmites along fence</i>			= Total Cover	<i>Recs 2:45</i> <i>+ 3:00</i>
Wood Vine Stratum				
1. <i>Zoehraea palustris</i>				
2. <i>Persicaria maculata</i>				
			= Total Cover	

Remarks: (Include photo numbers here or on a separate sheet.)

Depression

SE19-137



WETLAND DETERMINATION SUPPLEMENTAL FORM

Project/Site: Chicago O'Hare International Airport (ORD) City/County: DuPage/Cook Sampling Date: 9/24/19
 Applicant/Owner: City of Chicago State: Illinois Wetland #: SE19-138
 Investigator(s): Brauna Hartzell, Kim Shannon, Conor Makepeace, Mead & Hunt, Inc. Section, Township, Range: _____
 NWI classification: PEM See map on 137 sheet
 Are climatic hydrologic conditions on the site typical for this time of year? Yes ☐ No ☐ (If no, explain in Remarks.)
 Are Vegetation ☐, Soil ☐, or Hydrology ☐ significantly disturbed?
 Are Vegetation ☐, Soil ☐, or Hydrology ☐ naturally problematic?

ADDITIONAL VEGETATION - Use scientific names of plants

Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status	General location within wetland
1.				At base of stockpile and asphalt pavement from parking lot.
2.				
3.				
4.				
5.				
			= Total Cover	Other Notes - Continues along base of slope for Balanora Rd to Mannheim Rd - standing water at base - Depleted matrix
Sapling/Shrub Stratum				
1.				
2.				
3.				
			= Total Cover	- 12 inch culvert along pavement area connecting two sections - 36" culvert at toe slope along fill slope Phragmites - dominated Dics 4:20
Herb Stratum				
1. <i>Phragmites australis</i>	X		FACW	
2. <i>Typha angustifolia</i>			OBL	
3. <i>Echinochloa crus-galli</i>			FACW	
4. <i>Spl. sempervivens</i>			FACW	
5. <i>Hordeum jubatum</i>			FAC	
6. <i>Symphoricarpos latifolia</i>			OBL	
7. <i>Elythrum salicaria</i>			OBL	
8. <i>Pleurochloa pectinacea</i>			OBL	
9.				
10.				
11.				
12.				
			= Total Cover	
Wood Vine Stratum				
1.				
2.				
			= Total Cover	

Remarks: (Include photo numbers here or on a separate sheet.)
Depression

WETLAND DETERMINATION SUPPLEMENTAL FORM

Project/Site: Chicago O'Hare International Airport (ORD) City/County: DuPage/Cook Sampling Date: 9/24/19
 Applicant/Owner: City of Chicago State: Illinois Wetland #: SE/9-139
 Investigator(s): Brauna Hartzell, Kim Shannon, Conor Makepeace, Mead & Hunt, Inc. Section, Township, Range: _____
 NWI classification: PEM

Are climatic hydrologic conditions on the site typical for this time of year? Yes ☐ No ☐ (If no, explain in Remarks.)

Are Vegetation ☒, Soil ☒, or Hydrology ☐ significantly disturbed?

Are Vegetation ☐, Soil ☐, or Hydrology ☐ naturally problematic?

road const.
area mown; Soils disturbed by
rutting, erosion, gravel deposit

ADDITIONAL VEGETATION - Use scientific names of plants

Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status	General location within wetland
1.				- Along manheim Rd and I190 East Ramp near Balmoorall Bridge - Roadside
2.				
3.				
4.				
5.				
			= Total Cover	
Sapling/Shrub Stratum				Other Notes
1.				- area collects water from south
2.				- not a defined ditch line
3.				- several areas with
4.				standing water
5.				
			= Total Cover	
Herb Stratum				
1. <i>Symphoricarpos subulatum</i>	X		OBL	- on shallow pool at north end - Soil disturbed - Gravel in areas at north
2. <i>Phragmites australis</i>	X		FAW	
3. <i>Sole. sanguinalis</i>			FAW	
4. <i>Hordeum jubatum</i>			FAW	
5. <i>Persicaria maculata</i>			FAW	
6. <i>Cyperus esculentus</i>			FAW	
7. <i>Full Wild grass</i>			UPL	
8. <i>Eleocharis obtusa</i>	X		OBL	
9. <i>Bolboschium flavicollis</i>			OBL	
10. <i>Typha angustifolia</i>			OBL	
11. <i>Schoenoplectus pergens</i>			OBL	
12. <i>Carex sp. (Vulpinoides?)</i>			FAW	
			= Total Cover	
Wood Vine Stratum				
1.				Pics 4:45
2.				
			= Total Cover	

Remarks: (Include photo numbers here or on a separate sheet.)

Depression

WETLAND DETERMINATION SUPPLEMENTAL FORM

Project/Site: Chicago O'Hare International Airport (ORD)City/County: DuPage/CookSampling Date: 9/24/19Applicant/Owner: City of ChicagoState: IllinoisWetland #: NE19-140Investigator(s): Brauna Hartzell, Kim Shannon, Conor Makepeace, Mead & Hunt, Inc. Section, Township, Range: _____NWI classification: PEMAre climatic hydrologic conditions on the site typical for this time of year? Yes ☐ No ☐ (If no, explain in Remarks.)Are Vegetation ☒, Soil ☒, or Hydrology ☒ significantly disturbed?Are Vegetation ☐, Soil ☐, or Hydrology ☐ naturally problematic?Road construction; mowing,
covered drop inlet

ADDITIONAL VEGETATION - Use scientific names of plants

Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status	General location within wetland
1.				Roadside ditch along Merheim Rd north on ramp from I190 W
2.				
3.				
4.				
5.				
			= Total Cover	Other Notes - Degraded matrix - Red clay surface (A12) - Saturation at surface - Geomorphic pos - FAC - Neutral
Sapling/Shrub Stratum				
1.				
2.				
3.				
4.				
5.				
			= Total Cover	
Herb Stratum				
1. <i>Typha angustifolia</i>			OBL	
2. <i>Lithrum galicaria</i>			OBL	
3. <i>Phragmites australis</i>			FACW	
4. <i>Cyperus esculentus</i>			FACW	
5. <i>Verbena hastata</i>			FACW	
6. <i>Sol. sempervirens</i>			FACW	
7. <i>Paspalum lachrymans</i>			FACU	
8. <i>Fleodoris ovata</i>			OBL	
9.				Pics 5:30
10.				
11.				
12.				
			= Total Cover	
Wood Vine Stratum				
1.				
2.				
			= Total Cover	

Remarks: (Include photo numbers here or on a separate sheet.)

Depression

WETLAND DETERMINATION SUPPLEMENTAL FORM

Project/Site: Chicago O'Hare International Airport (ORD) City/County: DuPage/Cook Sampling Date: 9/25/19
 Applicant/Owner: City of Chicago State: Illinois Wetland #: SW19-141
 Investigator(s): Brauna Hartzell, Kim Shannon, Conor Makepeace, Mead & Hunt, Inc. Section, Township, Range: _____
 NWI classification: PEN

Are climatic hydrologic conditions on the site typical for this time of year? Yes ☐ No ☐ (If no, explain in Remarks.)

Are Vegetation ☐, Soil ☐, or Hydrology ☐ significantly disturbed?

Are Vegetation ☐, Soil ☐, or Hydrology ☐ naturally problematic?

ADDITIONAL VEGETATION - Use scientific names of plants

Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status	General location within wetland
1.				- Along base of field slope for railroad, south of Taft Ave
2.				
3.				
4.				
5.				
Sapling/Shrub Stratum			= Total Cover	Other Notes - Phragmites dominated - Standing water - Geophila pontica
1.				
2.				
3.				
4.				
Herb Stratum			= Total Cover	- connects to culvert under Tracy Park Rd to the Roadside ditch - Heavy grass before 10/3 - water flowing to north - 2-36" culverts under road; one large 48"
1. <i>Phragmites australis</i>			FACW	
2. <i>Lythrum salicaria</i>			OBL	
3. <i>Typha angustifolia</i>			OBL	
4. <i>Taraxacum officinale</i>				
5. <i>Schizanthus fluitans</i>			OBL	
6. <i>Bidens sp</i>				
7.				
8.				
9.				
10.				
11.				
Wood Vine Stratum			= Total Cover	Pics 11:50 culvert on west side
1.				
2.				
			= Total Cover	

Remarks: (Include photo numbers here or on a separate sheet.)

Revisited 10/3 to add to delineation.
Depression

WETLAND DETERMINATION SUPPLEMENTAL FORM

Project/Site: Chicago O'Hare International Airport (ORD) City/County: DuPage/Cook Sampling Date: 9/25/19
 Applicant/Owner: City of Chicago State: Illinois Wetland #: SW19-142
 Investigator(s): Brauna Hartzell, Kim Shannon, Conor Makepeace, Mead & Hunt, Inc. Section, Township, Range: _____
 NWI classification: PEM

Are climatic hydrologic conditions on the site typical for this time of year? Yes ☐ No ☐ (If no, explain in Remarks.)

Are Vegetation ☐, Soil ☒, or Hydrology ☐ significantly disturbed?

Are Vegetation ☐, Soil ☐, or Hydrology ☐ naturally problematic?

Gravel road construction

ADDITIONAL VEGETATION - Use scientific names of plants

Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status	General location within wetland
1.				- Ditch between gravel access road and rail embankment on west
2.				
3.				
4.				
5.				
Sapling/Shrub Stratum			= Total Cover	Other Notes - cattails and persimmon dominant - standing water - geomorphic pos. - Algal mats
1.				
2.				
3.				
4.				
5.				
Herb Stratum			= Total Cover	
1. <u>Typha angustifolia</u>	<u>X</u>		<u>OBL</u>	
2. <u>Persicaria praecox</u>	<u>X</u>		<u>FAEW</u>	
3. <u>Echinochloa crus-galli</u>			<u>FAEW</u>	
4. <u>Bearded Sparganium</u>			<u>FAEW</u>	
5. <u>Sagittaria subulata</u>			<u>OBL</u>	
6. <u>Lythrum salicaria</u>			<u>OBL</u>	
7.				
8.				
9.				
10.				
11.				
12.				
Wood Vine Stratum			= Total Cover	Pics 2:30
1.				
2.				
			= Total Cover	

Remarks: (Include photo numbers here or on a separate sheet.)

Depression

WETLAND DETERMINATION SUPPLEMENTAL FORM

Entered in OPS
at NE!

Project/Site: Chicago O'Hare International Airport (ORD) City/County: DuPage/Cook Sampling Date: 9/25/19
 Applicant/Owner: City of Chicago State: Illinois Wetland #: SE19-143
 Investigator(s): Brauna Hartzell, Kim Shannon, Conor Makepeace, Mead & Hunt, Inc. Section, Township, Range: _____
 NWI classification: PEM

Are climatic hydrologic conditions on the site typical for this time of year? Yes ☐ No ☐ (If no, explain in Remarks.)

Are Vegetation ☐, Soil ☒, or Hydrology ☐ significantly disturbed? swale construction

Are Vegetation ☐, Soil ☐, or Hydrology ☐ naturally problematic?

ADDITIONAL VEGETATION - Use scientific names of plants

Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status	General location within wetland
1.				- East side of N. Mannheim Entrance Ramp from Bel moral Ave - East side of gravel lot
2.				
3.				
4.				
5.				
			= Total Cover	Other Notes - Standing water - depression area - No culverts - Phrag dominated.
Sapling/Shrub Stratum				
1.				
2.				
3.				
4.				
5.				
			= Total Cover	
Herb Stratum				
1.				
2.				FACW OBL
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
			= Total Cover	
Wood Vine Stratum				Rec 4:50pm
1.				
2.				
			= Total Cover	
Remarks: (Include photo numbers here or on a separate sheet.)				

WETLAND DETERMINATION SUPPLEMENTAL FORM

Project/Site: Chicago O'Hare International Airport (ORD) City/County: DuPage/Cook Sampling Date: 9/26/19
 Applicant/Owner: City of Chicago State: Illinois Wetland #: SE19-144
 Investigator(s): Brauna Hartzell, Kim Shannon, Conor Makepeace, Mead & Hunt, Inc. Section, Township, Range: _____
 NWI classification: PEM

Are climatic hydrologic conditions on the site typical for this time of year? Yes ☐ No ☐ (If no, explain in Remarks.)

Are Vegetation ☒, Soil ☒, or Hydrology ☐ significantly disturbed? area is mown

Are Vegetation ☐, Soil ☐, or Hydrology ☐ naturally problematic?

ADDITIONAL VEGETATION - Use scientific names of plants

Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status	General location within wetland
1.				- Malsp for ZBR? near TNPLot
2.				
3.				
4.				
5.				
			= Total Cover	Other Notes - shallow depression - No culverts inlets - Drains to I294 ROW beyond fence - Geomorphi pontini - FWC Neutral
Sapling/Shrub Stratum				
1.				
2.				
3.				
			= Total Cover	- Receives runoff from gravel areas surrounding - Was Malsp Pitch in GPS
Herb Stratum				
1. <i>Phragmites australis</i>			FAEW	
2. <i>Typha angustifolia</i>			OBL	
3. <i>Cyperus setosus</i>			OBL	
4. <i>Erechtia obtusa</i>			OBL	
5. <i>Eleocharis palustris</i>			OBL	
6.				
7.				
8.				
9.				
10.				
11.				
12.				
			= Total Cover	Pics 2 10-10:15 am
Wood Vine Stratum				
1.				
2.				
			= Total Cover	

Remarks: (Include photo numbers here or on a separate sheet.)

Depression

WETLAND DETERMINATION SUPPLEMENTAL FORM

Project/Site: Chicago O'Hare International Airport (ORD)

City/County: DuPage/Cook

Sampling Date: 9/26/19

Applicant/Owner: City of Chicago

State: Illinois

Wetland #: SEP-145

Investigator(s): Brauna Hartzell, Kim Shannon, Mead & Hunt, Inc

Section, Township, Range:

NWI classification: PEM

Are climatic hydrologic conditions on the site typical for this time of year? Yes ☐ No ☐ (If no, explain in Remarks.)Are Vegetation ☒, Soil ☒, or Hydrology ☐ significantly disturbed?Are Vegetation ☐, Soil ☐, or Hydrology ☐ naturally problematic?

Area mown; road construction

ADDITIONAL VEGETATION - Use scientific names of plants

Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status	General location within wetland
1.				Roadside ditch along N. Mannheim (East side), south of Baluval
2.				
3.				
4.				
5.				
Sapling/Shrub Stratum			= Total Cover	Other Notes - Geomophis portum - FAed Neutral - Algal mats - Graded soils - Depleted Matrix
1.				
2.				
3.				
4.				
Herb Stratum			= Total Cover	Pics 12:30 - 1pm
1. <i>Solidago sempervirens</i>	X		FAEW	
2. <i>Schoenoplectus pungens</i>			OBL	
3. <i>Symphoricarpos tubulatus</i>			OBL	
4. <i>Rhynchospora australis</i>			FAEW	
5. <i>Echinochloa crus-galli</i>			FAEW	
6. <i>Bolboschoenus pumilus</i>			OBL	
7. <i>Cyperus esculentus</i>			FAEW	
8.				
9.				
10.				
Wood Vine Stratum			= Total Cover	
1.				
2.				
Remarks: (Include photo numbers here or on a separate sheet.)				
Depression				

WETLAND DETERMINATION SUPPLEMENTAL FORM

Placeholder for Connor #

Project/Site: Chicago O'Hare International Airport (ORD) City/County: DuPage/Cook Sampling Date: 8/25/19
 Applicant/Owner: City of Chicago State: Illinois Wetland #: SW19-146
 Investigator(s): Brauna Hartzell, Kim Shannon, Conor Makepeace, Mead & Hunt, Inc. Section, Township, Range: _____
 NWI classification: PEM

Are climatic hydrologic conditions on the site typical for this time of year? Yes ☐ No ☐ (If no, explain in Remarks.)

Are Vegetation ☐, Soil ☒, or Hydrology ☐ significantly disturbed?

Are Vegetation ☐, Soil ☐, or Hydrology ☐ naturally problematic?

Embankment construction

ADDITIONAL VEGETATION - Use scientific names of plants

Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status	General location within wetland
1.				- South of Taft Ave + Irving Park road
2.				
3.				
4.				
5.				
			= Total Cover	Other Notes Deep standing water - at base of RR fields - large culvert under access road to Nav. equipment - tunnel under RR to Nav. equipment
Sapling/Shrub Stratum				
1.				
2.				
3.				
4.				
5.				
			= Total Cover	
Herb Stratum				
1. <i>Phragmites</i>	X		FAEW	
2. <i>Lythrum Salicaria</i>	X		OBL	
3. <i>Typha angustifolia</i>			OBL	
4. <i>Juncus torreyi</i>			FAEW	
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
			= Total Cover	
Wood Vine Stratum				
1.				
2.				
			= Total Cover	

Remarks: (Include photo numbers here or on a separate sheet.)

WETLAND DETERMINATION SUPPLEMENTAL FORM

Project/Site: Chicago O'Hare International Airport (ORD) City/County: DuPage/Cook Sampling Date: 4/23/14
Applicant/Owner: City of Chicago State: Illinois Wetland #: NE65 (ow2)
Investigator(s): Brauna Hartzell, Kim Shannon, Conor Makepeace, Mead & Hunt, Inc. Section, Township, Range: _____
NWI classification: PSS

Are climatic hydrologic conditions on the site typical for this time of year? Yes ☐ No ☐ (If no, explain in Remarks.)

Are Vegetation ☐, Soil ☒, or Hydrology ☐ significantly disturbed?

Are Vegetation ☐, Soil ☐, or Hydrology ☐ naturally problematic?

Disturbed by construction of
steel retaining wall

ADDITIONAL VEGETATION - Use scientific names of plants

			Absolute % Cover	Dominant Species?	Indicator Status	General location within wetland
Tree Stratum						- old wetland NE65 - essentially split by retaining wall
1.	<i>Silver maple</i>				FACW	
2.	<i>Pop. deltoides</i>				FAC	
3.	<i>Fraxinus penn</i>				FACW	
4.						
5.						
			= Total Cover			Other Notes - against steel retaining wall for railroad property - Standing water - piles of gravel and soil enter mixed. - <i>Geomorphia ponda</i> - FAC Neutral
Sapling/Shrub Stratum						
1.	<i>Rhamnus cathartica</i>				FAC	
2.	<i>Salix interior (?)</i>					
3.						
4.						
5.						
			= Total Cover			
Herb Stratum						
1.	<i>Lythrum salicaria</i>	X			OBL	
2.	<i>Typha angustifolia</i>	X			OBL	
3.	<i>Eupatorium serotinum</i>				FACW	
4.	<i>Cyperus sp.</i>					
5.	<i>Vitis riparia</i>					
6.	<i>Juncus dedleyi</i>					
7.						
8.						
9.						
10.						
11.						
12.						
			= Total Cover			
Wood Vine Stratum						
1.						
2.						
			= Total Cover			
Remarks: (Include photo numbers here or on a separate sheet.)						

Appendix J. Stream Characterization and Ditch Data Forms

Stream Characterization **Date:** 8/19/2019 **Time:** 11:00 AM **Site:** ORD **County:** DuPage
Field ID: Stream/Ditch **Stream Name:** Bensenville Ditch - section 1 **Investigators:** CBM

Weather in the past 24 hours: <input type="checkbox"/> Storm (heavy rain) <input type="checkbox"/> Overcast <input checked="" type="checkbox"/> Rain (steady rain) <input checked="" type="checkbox"/> Clear/Sunny <input type="checkbox"/> Showers (intermittent rain)		3. Circle flow regime: EPHEMERAL <input type="checkbox"/> PERENNIAL <input checked="" type="checkbox"/> INTERMITTENT		9. Water Appearance: <input type="checkbox"/> clear <input checked="" type="checkbox"/> milky <input type="checkbox"/> foamy <input type="checkbox"/> turbid <input type="checkbox"/> light brown <input type="checkbox"/> dark brown <input type="checkbox"/> oily sheen <input type="checkbox"/> orange <input type="checkbox"/> greenish <input type="checkbox"/> other:		10. Water Odor: <input type="checkbox"/> sewage <input type="checkbox"/> chlorine <input type="checkbox"/> fishy <input type="checkbox"/> rotten eggs <input type="checkbox"/> organic <input checked="" type="checkbox"/> other: none																																																																																															
1. a) Approximate depth of water in stream: <input type="checkbox"/> N/A 6 inches		4. Stream habitats present: <input checked="" type="checkbox"/> Pool(s) <input type="checkbox"/> Run(s) <input type="checkbox"/> Riffles(s) <input type="checkbox"/> N/A		11. Presence of logs or large woody debris in stream: <input checked="" type="checkbox"/> None <input type="checkbox"/> Occasional <input type="checkbox"/> Plentiful																																																																																																	
b) Approximate width of water flow: <input type="checkbox"/> N/A 30 ft		5. Stream Velocity: <input type="checkbox"/> fast <input type="checkbox"/> moderate <input checked="" type="checkbox"/> slow <input type="checkbox"/> N/A		12. Pick the category that best describes the extent to which vegetation shades the stream: <input type="checkbox"/> 0% <input type="checkbox"/> 50% <input type="checkbox"/> 100% <input type="checkbox"/> 25% <input checked="" type="checkbox"/> 75% <input type="checkbox"/> other - %																																																																																																	
c) Approximate width of stream: (from top of bank to top of bank) 45 ft		6. Nature of the particles in the stream bottom: <table border="1" style="width:100%; text-align: center;"> <tr> <td></td> <td>None</td> <td>Little</td> <td>Some</td> <td>Most</td> </tr> <tr> <td>silt/clay/mud</td> <td></td> <td></td> <td><input checked="" type="checkbox"/></td> <td></td> </tr> <tr> <td>sand</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>gravel</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>cobbles (2 - 10" diam.)</td> <td></td> <td></td> <td></td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td>boulders (> 10" diam.)</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>bedrock</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>			None	Little	Some	Most	silt/clay/mud			<input checked="" type="checkbox"/>		sand					gravel					cobbles (2 - 10" diam.)				<input checked="" type="checkbox"/>	boulders (> 10" diam.)					bedrock					13. Pick the description that best fits the stream bank and the channel (facing upstream): a) Stream bank: <table border="1" style="width:100%; text-align: center;"> <tr> <td>Left</td> <td></td> <td>Right</td> </tr> <tr> <td></td> <td>Vertical/undercut</td> <td></td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td>Steeply sloping (>30°)</td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td>Gradual/No slope (<30°)</td> <td></td> </tr> </table> b) Shape of the channel: <table border="1" style="width:100%; text-align: center;"> <tr> <td><input checked="" type="checkbox"/></td> <td>Narrow, Deep</td> <td>Wide, Deep</td> </tr> <tr> <td><input type="checkbox"/></td> <td>Narrow, Shallow</td> <td>Wide, Shallow</td> </tr> </table>		Left		Right		Vertical/undercut		<input checked="" type="checkbox"/>	Steeply sloping (>30°)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Gradual/No slope (<30°)		<input checked="" type="checkbox"/>	Narrow, Deep	Wide, Deep	<input type="checkbox"/>	Narrow, Shallow	Wide, Shallow																																											
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d) Approximate height of banks (channel depth): left: 0.5 to 2 ft right: 2 ft		7. Presence of naturally occurring organic material in stream: <input type="checkbox"/> None <input checked="" type="checkbox"/> Occasional <input type="checkbox"/> Unknown <input type="checkbox"/> Plentiful		14. Describe the streamside cover. Check "P" if present, "C" if common a) Along the water's edge and stream bank only (facing upstream): <table border="1" style="width:100%; text-align: center;"> <tr> <th colspan="2">Left</th> <th></th> <th colspan="2">Right</th> </tr> <tr> <th>P</th> <th>C</th> <th></th> <th>P</th> <th>C</th> </tr> <tr> <td></td> <td></td> <td>Trees</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>Bushes, Shrubs</td> <td></td> <td></td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td>Tall grasses, forbs</td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td></td> <td></td> <td>Lawn, maintained landscape</td> <td></td> <td></td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td>Boulders/Rocks/Rip Rap</td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td></td> <td></td> <td>Gravel/Sand</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>Bare Soil</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>Pavement, Structures, Gabions</td> <td></td> <td></td> </tr> </table>		Left			Right		P	C		P	C			Trees					Bushes, Shrubs			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Tall grasses, forbs	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			Lawn, maintained landscape			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Boulders/Rocks/Rip Rap	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			Gravel/Sand					Bare Soil					Pavement, Structures, Gabions																																																
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e) Approximate depth of pool(s): <input type="checkbox"/> N/A 2 ft		8. Facing upstream, does this stream have <u>tree</u> cover for 50 feet on the: left side: no right side: no What is the % cover of <u>trees</u> per side of the stream? left side: 0 % right side: 0 %		15. In the vicinity of the stream, Check "P" if present, "C" if common: a) From the top of the streambank out to 50 feet: <table border="1" style="width:100%; text-align: center;"> <tr> <th colspan="2">Left</th> <th></th> <th colspan="2">Right</th> </tr> <tr> <th>P</th> <th>C</th> <th></th> <th>P</th> <th>C</th> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td></td> <td>Trees</td> <td><input checked="" type="checkbox"/></td> <td></td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td></td> <td>Bushes, Shrubs</td> <td><input checked="" type="checkbox"/></td> <td></td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td>Tall grasses, forbs</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>Lawn, maintained landscape</td> <td></td> <td></td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td>Boulders/Rocks</td> <td><input checked="" type="checkbox"/></td> <td></td> </tr> <tr> <td></td> <td></td> <td>Gravel/Sand</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>Bare Soil</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>Pavement, Structures</td> <td></td> <td></td> </tr> </table>		Left			Right		P	C		P	C	<input checked="" type="checkbox"/>		Trees	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		Bushes, Shrubs	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Tall grasses, forbs					Lawn, maintained landscape			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Boulders/Rocks	<input checked="" type="checkbox"/>				Gravel/Sand					Bare Soil					Pavement, Structures																																																
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18. Observed Fauna (make note of wildlife deterrents such as bird wires) List <input type="checkbox"/> Invertebrates <input checked="" type="checkbox"/> Birds: great blue heron, barn swallow, redwing blackbird <input type="checkbox"/> Mammals <input type="checkbox"/> Reptile/Amphians <input type="checkbox"/> Fish		19. Additional Comments Areas of riprap had more flow. Flow is southward; 2 roadside ditches enter on north side of property. Several enter stream from road on west and construction on east side.																																																																																																			
Datasheet entered by:		Last Revised: 09/25																																																																																																			

Stream Characterization **Date:** 8/30/2019 **Time:** 8:05am **Site:** ORD **County:** Cook
Field ID: Stream/Ditch **Stream Name:** Bensenville Ditch - Section 2 **Investigators:** CBM, BJH

Weather in the past 24 hours: <input type="checkbox"/> Storm (heavy rain) <input type="checkbox"/> Overcast <input checked="" type="checkbox"/> Rain (steady rain) <input checked="" type="checkbox"/> Clear/Sunny <input type="checkbox"/> Showers (intermittent rain)		3. Circle flow regime: EPHEMERAL <u>PERENNIAL</u> 4. Stream habitats present: <input type="checkbox"/> Pool(s) <input type="checkbox"/> Run(s) <input type="checkbox"/> Riffles(s) <input checked="" type="checkbox"/> N/A		9. Water Appearance: <input type="checkbox"/> clear <input type="checkbox"/> milky <input type="checkbox"/> foamy <input type="checkbox"/> turbid <input type="checkbox"/> light brown <input type="checkbox"/> dark brown <input type="checkbox"/> oily sheen <input checked="" type="checkbox"/> orange <input type="checkbox"/> none <input checked="" type="checkbox"/> greenish <input type="checkbox"/> other:		10. Water Odor: <input type="checkbox"/> sewage <input type="checkbox"/> chlorine <input type="checkbox"/> fishy <input type="checkbox"/> rotten eggs <input type="checkbox"/> organic <input checked="" type="checkbox"/> other: none																																																																																																																																																	
1. a) Approximate depth of water in stream: <input type="checkbox"/> N/A 4-5 ft b) Approximate width of water flow: <input type="checkbox"/> N/A 35 ft c) Approximate width of stream: (from top of bank to top of bank) 75 ft d) Approximate height of banks (channel depth): left 15 ft right 20 ft e) Approximate depth of pool(s): <input checked="" type="checkbox"/> N/A <input type="checkbox"/>		5. Stream Velocity: <input type="checkbox"/> fast <input type="checkbox"/> moderate <input checked="" type="checkbox"/> slow <input type="checkbox"/> N/A 6. Nature of the particles in the stream bottom: <table border="1" style="width:100%; text-align: center;"> <tr> <th></th> <th>None</th> <th>Little</th> <th>Some</th> <th>Most</th> </tr> <tr> <td>silt/clay/mud</td> <td></td> <td></td> <td></td> <td>x</td> </tr> <tr> <td>sand</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>cobbles (2 - 10" diam.)</td> <td></td> <td></td> <td>x</td> <td></td> </tr> <tr> <td>boulders (> 10" diam.)</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>bedrock</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>			None	Little	Some	Most	silt/clay/mud				x	sand					cobbles (2 - 10" diam.)			x		boulders (> 10" diam.)					bedrock					11. Presence of logs or large woody debris in stream: <input checked="" type="checkbox"/> None <input type="checkbox"/> Occasional <input type="checkbox"/> Plentiful 12. Pick the category that best describes the extent to which vegetation shades the stream: <input type="checkbox"/> 0% <input type="checkbox"/> 50% <input type="checkbox"/> 100% <input checked="" type="checkbox"/> 25% <input type="checkbox"/> 75% <input checked="" type="checkbox"/> other - 10%																																																																																																																					
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2. Plant Species Adjacent to stream (scientific name): Trees: <i>Populus deltoides</i> Understory: <i>Lythrum salicaria, Eupatorium serotinum, Phragmites australis, Dipsacus laciniatus, Euthamia graminifolia</i>		8. Facing upstream, does this stream have <u>tree</u> cover for 50 feet on the: left side <u>yes</u> right side <u>yes</u> What is the % cover of <u>trees</u> per side of the stream? left side <u>2</u> % right side <u>2</u> % Facing upstream, does this stream have <u>shrub</u> cover for 50 feet on the: left side <u>yes</u> right side <u>yes</u> What is the % cover of <u>shrubs</u> per side of the stream? 1% 1% Observer initials:		13. Pick the description that best fits the stream bank and the channel (facing upstream): a) Stream bank: <table border="1" style="width:100%; text-align: center;"> <tr> <th>Left</th> <th></th> <th>Right</th> </tr> <tr> <td></td> <td>Vertical/undercut</td> <td></td> </tr> <tr> <td></td> <td>Steeply sloping (>30°)</td> <td>x</td> </tr> <tr> <td>x</td> <td>Gradual/No slope (<30°)</td> <td></td> </tr> </table> b) Shape of the channel: <table border="1" style="width:100%; text-align: center;"> <tr> <th></th> <th>Narrow, Deep</th> <th>Wide, Deep</th> </tr> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td>x</td> <td>Narrow, Shallow</td> <td>Wide, Shallow</td> </tr> </table>		Left		Right		Vertical/undercut			Steeply sloping (>30°)	x	x	Gradual/No slope (<30°)			Narrow, Deep	Wide, Deep				x	Narrow, Shallow	Wide, Shallow																																																																																																																													
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Datasheet entered by:		Last Revised: 09/25																																																																																																																																																					

Stream Characterization **Date:** 9/19/2019 **Time:** 2:40pm **Site:** ORD **County:** Cook
Field ID: Stream/Ditch **Stream Name:** Bensenville Ditch - Section 3 **Investigators:** CBM, BJH

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2. Plant Species Adjacent to stream (scientific name): Trees: <i>Rhamnus cathartica</i> , <i>Salix interior</i> <i>Ulmus pumila</i> Understory: <i>Typha angustifolia</i> , <i>Lythrum salicaria</i> <i>Solidago sempervirens</i>						14. Describe the streamside cover. Check "P" if present, "C" if common a) Along the water's edge and stream bank only (facing upstream): <table border="1" style="width:100%; text-align: center;"> <tr> <th colspan="2">Left</th> <th></th> <th colspan="2">Right</th> </tr> <tr> <th>P</th> <th>C</th> <th></th> <th>P</th> <th>C</th> </tr> <tr> <td>X</td> <td></td> <td>Trees</td> <td>X</td> <td></td> </tr> <tr> <td>X</td> <td>X</td> <td>Bushes, Shrubs</td> <td></td> <td></td> </tr> <tr> <td>X</td> <td></td> <td>Tall grasses, <u>forbs</u></td> <td>X</td> <td>X</td> </tr> <tr> <td></td> <td></td> <td>Lawn, maintained landscape</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>Boulders/Rocks/Rip Rap</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>Gravel/Sand</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>Bare Soil</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>Pavement, Structures, Gabions</td> <td></td> <td></td> </tr> </table>						Left			Right		P	C		P	C	X		Trees	X		X	X	Bushes, Shrubs			X		Tall grasses, <u>forbs</u>	X	X			Lawn, maintained landscape					Boulders/Rocks/Rip Rap					Gravel/Sand					Bare Soil					Pavement, Structures, Gabions											
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18. Observed Fauna (make note of wildlife deterrents such as bird wires) List <input checked="" type="checkbox"/> Invertebrates grasshoppers, butterflies <input type="checkbox"/> Birds <input type="checkbox"/> Mammals <input type="checkbox"/> Reptile/Amphians <input type="checkbox"/> Fish																																																																						
19. Additional Comments double box culverts from under Irving Park Rd; flows into Silver Creek reservoir; very short																																																																						
Datasheet entered by:				Last Revised: 09/25																																																																		

Stream Characterization **Date:** 8/16/2019 **Time:** 11:45 AM **Site:** ORD **County:** Cook
Field ID: Stream/Ditch **Stream Name:** Crystal Creek Section 1 **Investigators:** BJH, CBM

Weather in the past 24 hours: <input type="checkbox"/> Storm (heavy rain) <input checked="" type="checkbox"/> Overcast <input type="checkbox"/> Rain (steady rain) <input type="checkbox"/> Clear/Sunny <input type="checkbox"/> Showers (intermittent rain)		3. Circle flow regime: EPHEMERAL <input checked="" type="checkbox"/> PERENNIAL 4. Stream habitats present: <input type="checkbox"/> Pool(s) <input type="checkbox"/> Run(s) <input type="checkbox"/> Riffles(s) <input checked="" type="checkbox"/> N/A		9. Water Appearance: <input type="checkbox"/> clear <input type="checkbox"/> milky <input type="checkbox"/> foamy <input type="checkbox"/> turbid <input type="checkbox"/> light brown <input type="checkbox"/> dark brown <input type="checkbox"/> oily sheen <input type="checkbox"/> orange <input type="checkbox"/> none <input checked="" type="checkbox"/> greenish <input type="checkbox"/> other:		10. Water Odor: <input type="checkbox"/> sewage <input type="checkbox"/> chlorine <input type="checkbox"/> fishy <input type="checkbox"/> rotten eggs <input type="checkbox"/> organic <input checked="" type="checkbox"/> other: none																																																																																																																		
1. a) Approximate depth of water in stream: <input type="checkbox"/> N/A unknown		5. Stream Velocity: <input type="checkbox"/> fast <input type="checkbox"/> moderate <input checked="" type="checkbox"/> slow <input type="checkbox"/> N/A to none		11. Presence of logs or large woody debris in stream: <input checked="" type="checkbox"/> None <input type="checkbox"/> Occasional <input type="checkbox"/> Plentiful		12. Pick the category that best describes the extent to which vegetation shades the stream: <input checked="" type="checkbox"/> 0% <input type="checkbox"/> 50% <input type="checkbox"/> 100% <input type="checkbox"/> 25% <input type="checkbox"/> 75% <input type="checkbox"/> other - %																																																																																																																		
b) Approximate width of water flow: <input type="checkbox"/> N/A 25-30ft		6. Nature of the particles in the stream bottom: can't see bottom None Little Some Most																																																																																																																						
c) Approximate width of stream: (from top of bank to top of bank) 35 ft		7. Presence of naturally occurring organic material in stream: algae <input type="checkbox"/> Unknown <input checked="" type="checkbox"/> Plentiful <input type="checkbox"/> None <input type="checkbox"/> Occasional		13. Pick the description that best fits the stream bank and the channel (facing upstream): a) Stream bank: Left Vertical/undercut Right <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> Steeply sloping (>30°) <input type="checkbox"/> <input type="checkbox"/> Gradual/No slope (<30°) <input type="checkbox"/> b) Shape of the channel: <input type="checkbox"/> Narrow, Deep Wide, Deep <input checked="" type="checkbox"/> <input type="checkbox"/> Narrow, Shallow Wide, Shallow																																																																																																																				
d) Approximate height of banks (channel depth): left 2 ft right 2 ft		8. Facing upstream, does this stream have tree cover for 50 feet on the: left side no right side no What is the % cover of trees per side of the stream? left side 0 % right side 0 % Facing upstream, does this stream have shrub cover for 50 feet on the: left side yes right side no What is the % cover of shrubs per side of the stream? 10% Observer initials: BJH																																																																																																																						
2. Plant Species Adjacent to stream (scientific name): Trees: N/A Understory: Lythrum salicaria, Juncus dudleyi, Carex vulpinoidea, Sagittaria latifolia, Vitis riparia Salix interior		14. Describe the streamside cover. 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Stream Characterization **Date:** 7/16/2019 **Time:** **Site:** ORD **County:** Cook
Field ID: Stream/Ditch **Stream Name:** Crystal Creek, Section 2 **Investigators:** BJH, KAS

Weather in the past 24 hours: <input type="checkbox"/> Storm (heavy rain) <input type="checkbox"/> Overcast <input type="checkbox"/> Rain (steady rain) <input checked="" type="checkbox"/> Clear/Sunny <input type="checkbox"/> Showers (intermittent rain)		3. Circle flow regime: EPHEMERAL PERENNIAL <input checked="" type="checkbox"/> INTERMITTENT		9. Water Appearance: <input type="checkbox"/> clear <input type="checkbox"/> milky <input type="checkbox"/> foamy <input checked="" type="checkbox"/> turbid <input type="checkbox"/> light brown <input type="checkbox"/> dark brown <input type="checkbox"/> oily sheen <input type="checkbox"/> orange <input type="checkbox"/> none <input type="checkbox"/> greenish <input type="checkbox"/> other:		10. Water Odor: <input type="checkbox"/> sewage <input type="checkbox"/> chlorine <input type="checkbox"/> fishy <input type="checkbox"/> rotten eggs <input type="checkbox"/> organic <input checked="" type="checkbox"/> other: none																																																																																																																																																																											
1. a) Approximate depth of water in stream: <input type="checkbox"/> N/A up to 6 inches b) Approximate width of water flow: <input type="checkbox"/> N/A 18 ft c) Approximate width of stream: (from top of bank to top of bank) 60 ft d) Approximate height of banks (channel depth): left 20 ft right 20 ft e) Approximate depth of pool(s): <input checked="" type="checkbox"/> N/A		4. Stream habitats present: <input checked="" type="checkbox"/> Pool(s) <input type="checkbox"/> Run(s) <input type="checkbox"/> Riffles(s) <input type="checkbox"/> N/A 5. Stream Velocity: <input type="checkbox"/> fast <input type="checkbox"/> moderate <input type="checkbox"/> slow <input checked="" type="checkbox"/> N/A 6. Nature of the particles in the stream bottom: <table border="1"> <thead> <tr> <th></th> <th>None</th> <th>Little</th> <th>Some</th> <th>Most</th> </tr> </thead> <tbody> <tr> <td>silt/clay/mud</td> <td></td> <td></td> <td><input checked="" type="checkbox"/></td> <td></td> </tr> <tr> <td>sand</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>gravel</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>cobbles (2 - 10" diam.)</td> <td></td> <td></td> <td></td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td>boulders (> 10" diam.)</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>bedrock</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>			None	Little	Some	Most	silt/clay/mud			<input checked="" type="checkbox"/>		sand					gravel					cobbles (2 - 10" diam.)				<input checked="" type="checkbox"/>	boulders (> 10" diam.)					bedrock					11. Presence of logs or large woody debris in stream: <input checked="" type="checkbox"/> None <input type="checkbox"/> Occasional <input type="checkbox"/> Plentiful 12. Pick the category that best describes the extent to which vegetation shades the stream: <input type="checkbox"/> 0% <input checked="" type="checkbox"/> 50% <input type="checkbox"/> 100% <input type="checkbox"/> 25% <input type="checkbox"/> 75% <input type="checkbox"/> other - %																																																																																																																																										
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2. Plant Species Adjacent to stream (scientific name): Trees: <i>Salix interior, Cornus sericea,</i> Understory: <i>Typha angustifolia, Lythrum salicaria,</i> <i>Sambucus canadensis, Vitis riparia</i>		8. Facing upstream, does this stream have tree cover for 50 feet on the: left side <input type="checkbox"/> No right side <input type="checkbox"/> No What is the % cover of trees per side of the stream? left side % right side % Facing upstream, does this stream have shrub cover for 50 feet on the: left side <input type="checkbox"/> No right side <input type="checkbox"/> No What is the % cover of shrubs per side of the stream? left side % right side % Observer initials: KAS		13. Pick the description that best fits the stream bank and the channel (facing upstream): a) Stream bank: <table border="1"> <thead> <tr> <th>Left</th> <th></th> <th>Right</th> </tr> </thead> <tbody> <tr> <td><input type="checkbox"/></td> <td>Vertical/undercut</td> <td><input type="checkbox"/></td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td>Steeply sloping (>30°)</td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/></td> <td>Gradual/No slope (<30°)</td> <td><input type="checkbox"/></td> </tr> </tbody> </table> b) Shape of the channel: <table border="1"> <thead> <tr> <th></th> <th>Narrow, Deep</th> <th>Wide, Deep</th> </tr> </thead> <tbody> <tr> <td><input type="checkbox"/></td> <td></td> <td></td> </tr> <tr> <td><input type="checkbox"/></td> <td>Narrow, Shallow</td> <td>Wide, Shallow</td> </tr> <tr> <td><input type="checkbox"/></td> <td></td> <td><input checked="" type="checkbox"/></td> </tr> </tbody> </table>		Left		Right	<input type="checkbox"/>	Vertical/undercut	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Steeply sloping (>30°)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Gradual/No slope (<30°)	<input type="checkbox"/>		Narrow, Deep	Wide, Deep	<input type="checkbox"/>			<input type="checkbox"/>	Narrow, Shallow	Wide, Shallow	<input type="checkbox"/>		<input checked="" type="checkbox"/>																																																																																																																																																				
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Stream Characterization		Date: 7/19/2019	Time:	Site: ORD	County: Cook
Field ID: Stream/Ditch		Stream Name: Crystal Creek, Section 3			Investigators: BJH, KAS

Weather in the past 24 hours: <input checked="" type="checkbox"/> Storm (heavy rain) <input checked="" type="checkbox"/> Overcast <input type="checkbox"/> Rain (steady rain) <input type="checkbox"/> Clear/Sunny <input type="checkbox"/> Showers (intermittent rain)	3. Circle flow regime: <u>EPHEMERAL</u> PERENNIAL <input checked="" type="checkbox"/> <u>INTERMITTENT</u> 4. Stream habitats present: <input type="checkbox"/> Pool(s) <input type="checkbox"/> Run(s) <input type="checkbox"/> Riffles(s) <input checked="" type="checkbox"/> N/A 5. Stream Velocity: <input type="checkbox"/> fast <input type="checkbox"/> moderate <input type="checkbox"/> slow <input checked="" type="checkbox"/> N/A	9. Water Appearance: <input type="checkbox"/> clear <input type="checkbox"/> milky <input type="checkbox"/> foamy <input type="checkbox"/> turbid <input type="checkbox"/> light brown <input type="checkbox"/> dark brown <input type="checkbox"/> oily sheen <input type="checkbox"/> orange <input type="checkbox"/> none <input type="checkbox"/> greenish <input checked="" type="checkbox"/> X <input type="checkbox"/> other:																																																																																																																																																							
1. a) Approximate depth of water in stream: <input checked="" type="checkbox"/> N/A up to 6" b) Approximate width of water flow: <input type="checkbox"/> N/A 18 ft c) Approximate width of stream: (from top of bank to top of bank) 60 ft d) Approximate height of banks (channel depth): left 20 ft right 20 ft e) Approximate depth of pool(s): <input checked="" type="checkbox"/> N/A	6. Nature of the particles in the stream bottom: <table border="1" style="width:100%; text-align: center;"> <tr> <th></th> <th>None</th> <th>Little</th> <th>Some</th> <th>Most</th> </tr> <tr> <td>silt/clay/mud</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>sand</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>gravel</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>cobbles (2 - 10" diam.)</td> <td></td> <td></td> <td></td> <td>X</td> </tr> <tr> <td>boulders (> 10" diam.)</td> <td></td> <td></td> <td>X</td> <td></td> </tr> <tr> <td>bedrock</td> <td></td> <td></td> <td></td> <td></td> </tr> </table> 7. Presence of naturally occurring organic material in stream: <input type="checkbox"/> None <input checked="" type="checkbox"/> Occasional <input type="checkbox"/> Unknown <input type="checkbox"/> Plentiful		None	Little	Some	Most	silt/clay/mud					sand					gravel					cobbles (2 - 10" diam.)				X	boulders (> 10" diam.)			X		bedrock					10. Water Odor: <input type="checkbox"/> sewage <input type="checkbox"/> chlorine <input type="checkbox"/> fishy <input type="checkbox"/> rotten eggs <input type="checkbox"/> organic <input checked="" type="checkbox"/> other: none																																																																																																																				
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2. Plant Species Adjacent to stream (scientific name): Trees: <u>Morus sp.</u> Understory: <u>Phragmites australis, Typha angustifolia,</u>	8. Facing upstream, does this stream have <u>tree</u> cover for 50 feet on the: left side <u>No</u> right side <u>No</u> What is the % cover of <u>trees</u> per side of the stream? left side _____% right side _____% Facing upstream, does this stream have <u>shrub</u> cover for 50 feet on the: left side <u>Yes</u> right side <u>Yes</u> What is the % cover of <u>shrubs</u> per side of the stream? left side _____% right side _____% Observer initials: KAS	11. Presence of logs or large woody debris in stream: <input checked="" type="checkbox"/> None <input type="checkbox"/> Occasional <input type="checkbox"/> Plentiful 12. Pick the category that best describes the extent to which vegetation <u>shades</u> the stream: <input type="checkbox"/> 0% <input type="checkbox"/> 50% <input type="checkbox"/> 100% <input type="checkbox"/> 25% <input checked="" type="checkbox"/> 75% <input type="checkbox"/> other - _____% 13. Pick the description that best fits the stream bank and the channel (facing upstream): a) Stream bank: <table border="1" style="width:100%; text-align: center;"> <tr> <th>Left</th> <th></th> <th>Right</th> </tr> <tr> <td></td> <td>Vertical/undercut</td> <td></td> </tr> <tr> <td>X</td> <td>Steeply sloping (>30°)</td> <td>X</td> </tr> <tr> <td></td> <td>Gradual/No slope (<30°)</td> <td></td> </tr> </table> b) Shape of the channel: <table border="1" style="width:100%; text-align: center;"> <tr> <th></th> <th>Narrow, Deep</th> <th>Wide, Deep</th> </tr> <tr> <td></td> <td>Narrow, Shallow</td> <td>Wide, Shallow</td> </tr> <tr> <td></td> <td></td> <td>X</td> </tr> </table>	Left		Right		Vertical/undercut		X	Steeply sloping (>30°)	X		Gradual/No slope (<30°)			Narrow, Deep	Wide, Deep		Narrow, Shallow	Wide, Shallow			X																																																																																																																																		
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18. Observed Fauna (make note of wildlife deterrents such as bird wires) List <input type="checkbox"/> Invertebrates <input type="checkbox"/> Birds <input type="checkbox"/> Mammals <input type="checkbox"/> Reptile/Amphians <input type="checkbox"/> Fish			19. Additional Comments wetland SE19-1 connected at southeast end roadside ditches flow in at east end; phragmites dominated; connected to segment 1 via box culverts; east end flows under Mannheim Rd via box culverts to segment 3 Datasheet entered by: KAS Last Revised: 08/19																																																																																																																																																						

Stream Characterization **Date:** 7/16/2019 **Time:** AM **Site:** ORD **County:** Cook
Field ID: Stream/Ditch **Stream Name:** Crystal Creek Section 4 **Investigators:** BH, KS

Weather in the past 24 hours: <input type="checkbox"/> Storm (heavy rain) <input type="checkbox"/> Overcast <input checked="" type="checkbox"/> Rain (steady rain) <input checked="" type="checkbox"/> Clear/Sunny <input type="checkbox"/> Showers (intermittent rain)		3. Circle flow regime: <u>EPHEMERAL</u> PERENNIAL <input checked="" type="checkbox"/> INTERMITTENT		9. Water Appearance: <input type="checkbox"/> clear <input type="checkbox"/> milky <input type="checkbox"/> foamy <input checked="" type="checkbox"/> turbid <input type="checkbox"/> light brown <input type="checkbox"/> dark brown <input type="checkbox"/> oily sheen <input type="checkbox"/> orange <input type="checkbox"/> none <input type="checkbox"/> greenish <input type="checkbox"/> other:		10. Water Odor: <input type="checkbox"/> sewage <input type="checkbox"/> chlorine <input type="checkbox"/> fishy <input type="checkbox"/> rotten eggs <input type="checkbox"/> organic <input checked="" type="checkbox"/> other: none																																																																																																																																																	
1. a) Approximate depth of water in stream: <input type="checkbox"/> N/A up to 12 inches b) Approximate width of water flow: <input type="checkbox"/> N/A 10-12 feet c) Approximate width of stream: (from top of bank to top of bank) 70+ feet d) Approximate height of banks (channel depth): left 30 feet right 30 feet e) Approximate depth of pool(s): <input checked="" type="checkbox"/> N/A		4. Stream habitats present: <input type="checkbox"/> Pool(s) <input type="checkbox"/> Run(s) <input type="checkbox"/> Riffles(s) <input checked="" type="checkbox"/> N/A 5. Stream Velocity: <input type="checkbox"/> fast <input type="checkbox"/> moderate <input checked="" type="checkbox"/> slow <input type="checkbox"/> N/A 6. Nature of the particles in the stream bottom: <table border="1" style="width:100%; text-align: center;"> <tr> <th></th> <th>None</th> <th>Little</th> <th>Some</th> <th>Most</th> </tr> <tr> <td>silt/clay/mud</td> <td></td> <td></td> <td></td> <td>X</td> </tr> <tr> <td>sand</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>gravel</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>cobbles (2 - 10" diam.)</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>boulders (> 10" diam.)</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>bedrock</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>			None	Little	Some	Most	silt/clay/mud				X	sand					gravel					cobbles (2 - 10" diam.)					boulders (> 10" diam.)					bedrock					11. Presence of logs or large woody debris in stream: <input checked="" type="checkbox"/> None <input type="checkbox"/> Occasional <input type="checkbox"/> Plentiful 12. Pick the category that best describes the extent to which vegetation shades the stream: <input type="checkbox"/> 0% <input type="checkbox"/> 50% <input checked="" type="checkbox"/> 100% <input type="checkbox"/> 25% <input type="checkbox"/> 75% <input type="checkbox"/> other - %																																																																																																																
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2. Plant Species Adjacent to stream (scientific name): Trees: <i>Acer negundo, Salix interior</i> <i>Rhamnus cathartica, Cornus sericea</i> Understory: <i>Typha angustifolia, Juncus nodosus, Lythrum salicaria</i> <i>Toxicodendron radicans, Scirpus sp.</i>		8. Facing upstream, does this stream have <u>tree</u> cover for 50 feet on the: left side Y right side Y What is the % cover of <u>trees</u> per side of the stream? left side 30 % right side 30 % Facing upstream, does this stream have <u>shrub</u> cover for 50 feet on the: left side Y right side Y What is the % cover of <u>shrubs</u> per side of the stream? 50% Observer initials: ks		13. Pick the description that best fits the stream bank and the channel (facing upstream): a) Stream bank: <table border="1" style="width:100%; text-align: center;"> <tr> <th>Left</th> <th></th> <th>Right</th> </tr> <tr> <td></td> <td>Vertical/undercut</td> <td></td> </tr> <tr> <td>X</td> <td>Steeply sloping (>30°)</td> <td>X</td> </tr> <tr> <td></td> <td>Gradual/No slope (<30°)</td> <td></td> </tr> </table> b) Shape of the channel: <table border="1" style="width:100%; text-align: center;"> <tr> <td></td> <td>Narrow, Deep</td> <td>Wide, Deep</td> </tr> <tr> <td>X</td> <td>Narrow, Shallow</td> <td>Wide, Shallow</td> </tr> </table>		Left		Right		Vertical/undercut		X	Steeply sloping (>30°)	X		Gradual/No slope (<30°)			Narrow, Deep	Wide, Deep	X	Narrow, Shallow	Wide, Shallow																																																																																																																																
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18. Observed Fauna (make note of wildlife deterrents such as bird wires) <table border="1" style="width:100%;"> <tr> <th></th> <th>List</th> </tr> <tr> <td>X</td> <td>Invertebrates mosquitos</td> </tr> <tr> <td></td> <td>Birds</td> </tr> <tr> <td></td> <td>Mammals</td> </tr> <tr> <td></td> <td>Reptile/Amphians</td> </tr> <tr> <td></td> <td>Fish</td> </tr> </table>			List	X	Invertebrates mosquitos		Birds		Mammals		Reptile/Amphians		Fish	19. Additional Comments 2 roadside ditches drain into creek; armored entire length with cobbles; exits under I-294 via double box culver (10x8ft); filled/dominated with Typha; 2 booms span stream near east end; steel weir present & in poor condition Datasheet entered by: KAS Last Revised: 08/19																																																																																																																																									
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Stream Characterization **Date:** 8/23/2019 **Time:** 2:49 PM **Site:** ORD **County:** Cook
Field ID: Stream/Ditch **Stream Name:** Ditch 1 **Investigators:** BJH, KAS, CBM

<p>Weather in the past 24 hours:</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td><input type="checkbox"/> Storm (heavy rain)</td> <td><input type="checkbox"/> Overcast</td> </tr> <tr> <td><input type="checkbox"/> Rain (steady rain)</td> <td><input checked="" type="checkbox"/> Clear/Sunny</td> </tr> <tr> <td><input type="checkbox"/> Showers (intermittent rain)</td> <td></td> </tr> </table> <p>1. a) Approximate depth of water in stream: <input type="checkbox"/> N/A <input type="checkbox"/> 0-3 inches</p> <p>b) Approximate width of water flow: <input type="checkbox"/> N/A <input type="checkbox"/> 2.5 - 3ft</p> <p>c) Approximate width of stream: (from top of bank to top of bank) <input type="checkbox"/> 6 ft</p> <p>d) Approximate height of banks (channel depth): left <input type="checkbox"/> 8 inches right <input type="checkbox"/> 6 inches</p> <p>e) Approximate depth of pool(s): <input checked="" type="checkbox"/> N/A <input type="checkbox"/></p> <p>2. Plant Species Adjacent to stream (scientific name):</p> <p>Trees:</p> <p><i>Ailanthus altissima</i></p> <p>Understory:</p> <p><i>Solidago sempervirens</i> <i>Poplar balsamifera</i></p>	<input type="checkbox"/> Storm (heavy rain)	<input type="checkbox"/> Overcast	<input type="checkbox"/> Rain (steady rain)	<input checked="" type="checkbox"/> Clear/Sunny	<input type="checkbox"/> Showers (intermittent rain)		<p>3. Circle flow regime: <input checked="" type="checkbox"/> PERMANENT <input type="checkbox"/> PERENNIAL <input type="checkbox"/> INTERMITTENT</p> <p>4. Stream habitats present:</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td><input type="checkbox"/> Pool(s)</td> <td><input type="checkbox"/> Run(s)</td> </tr> <tr> <td><input type="checkbox"/> Riffles(s)</td> <td><input checked="" type="checkbox"/> N/A</td> </tr> </table> <p>5. Stream Velocity: <input type="checkbox"/> fast <input type="checkbox"/> moderate <input type="checkbox"/> slow <input checked="" type="checkbox"/> N/A</p> <p>6. Nature of the particles in the stream bottom:</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th></th> <th>None</th> <th>Little</th> <th>Some</th> <th>Most</th> </tr> <tr> <td>silt/clay/mud</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>sand</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>gravel</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>cobbles (2 - 10" diam.)</td> <td></td> <td></td> <td></td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td>boulders (> 10" diam.)</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>bedrock</td> <td></td> <td></td> <td></td> <td></td> </tr> </table> <p>7. Presence of naturally occurring organic material in stream: <input type="checkbox"/> None <input checked="" type="checkbox"/> Occasional <input type="checkbox"/> Unknown <input type="checkbox"/> Plentiful</p> <p>8. Facing upstream, does this stream have tree cover for 50 feet on the: left side <input checked="" type="checkbox"/> yes right side <input type="checkbox"/> no</p> <p>What is the % cover of trees per side of the stream? left side <input type="checkbox"/> 80 % right side <input type="checkbox"/> 0 %</p> <p>Facing upstream, does this stream have shrub cover for 50 feet on the: left side <input checked="" type="checkbox"/> yes right side <input type="checkbox"/> no</p> <p>What is the % cover of shrubs per side of the stream? 20% 0 Observer initials: KS</p>	<input type="checkbox"/> Pool(s)	<input type="checkbox"/> Run(s)	<input type="checkbox"/> Riffles(s)	<input checked="" type="checkbox"/> N/A		None	Little	Some	Most	silt/clay/mud					sand					gravel					cobbles (2 - 10" diam.)				<input checked="" type="checkbox"/>	boulders (> 10" diam.)					bedrock					<p>9. Water Appearance:</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr><td><input type="checkbox"/> clear</td></tr> <tr><td><input type="checkbox"/> milky</td></tr> <tr><td><input type="checkbox"/> foamy</td></tr> <tr><td><input type="checkbox"/> turbid</td></tr> <tr><td><input type="checkbox"/> light brown</td></tr> <tr><td><input type="checkbox"/> dark brown</td></tr> <tr><td><input type="checkbox"/> oily sheen</td></tr> <tr><td><input type="checkbox"/> orange</td></tr> <tr><td><input checked="" type="checkbox"/> greenish</td></tr> <tr><td><input type="checkbox"/> other:</td></tr> </table> <p>10. Water Odor: <input type="checkbox"/> sewage <input type="checkbox"/> chlorine <input type="checkbox"/> fishy <input type="checkbox"/> rotten eggs <input type="checkbox"/> organic <input checked="" type="checkbox"/> other: none</p> <p>11. Presence of logs or large woody debris in stream: <input type="checkbox"/> None <input checked="" type="checkbox"/> Occasional <input type="checkbox"/> Plentiful</p> <p>12. Pick the category that best describes the extent to which vegetation shades the stream: <input type="checkbox"/> 0% <input checked="" type="checkbox"/> 50% <input type="checkbox"/> 100% <input type="checkbox"/> 25% <input type="checkbox"/> 75% <input type="checkbox"/> other - %</p> <p>13. Pick the description that best fits the stream bank and the channel (facing upstream):</p> <p>a) Stream bank:</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>Left</th> <th></th> <th>Right</th> </tr> <tr> <td><input type="checkbox"/></td> <td>Vertical/undercut</td> <td><input type="checkbox"/></td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td>Steeply sloping (>30°)</td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/></td> <td>Gradual/No slope (<30°)</td> <td><input checked="" type="checkbox"/></td> </tr> </table> <p>b) Shape of the channel:</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td><input type="checkbox"/> Narrow, Deep</td> <td><input type="checkbox"/> Wide, Deep</td> </tr> <tr> <td><input checked="" type="checkbox"/> Narrow, Shallow</td> <td><input type="checkbox"/> Wide, Shallow</td> </tr> </table>	<input type="checkbox"/> clear	<input type="checkbox"/> milky	<input type="checkbox"/> foamy	<input type="checkbox"/> turbid	<input type="checkbox"/> light brown	<input type="checkbox"/> dark brown	<input type="checkbox"/> oily sheen	<input type="checkbox"/> orange	<input checked="" type="checkbox"/> greenish	<input type="checkbox"/> other:	Left		Right	<input type="checkbox"/>	Vertical/undercut	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Steeply sloping (>30°)	<input type="checkbox"/>	<input type="checkbox"/>	Gradual/No slope (<30°)	<input checked="" type="checkbox"/>	<input type="checkbox"/> Narrow, Deep	<input type="checkbox"/> Wide, Deep	<input checked="" type="checkbox"/> Narrow, Shallow	<input type="checkbox"/> Wide, Shallow																													
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<p>14. Describe the streamside cover. Check "P" if present, "C" if common</p> <p>a) Along the water's edge and stream bank only (facing upstream):</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="2">Left</th> <th></th> <th colspan="2">Right</th> </tr> <tr> <th>P</th> <th>C</th> <th></th> <th>P</th> <th>C</th> </tr> <tr><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td>Trees</td><td></td><td></td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>Bushes, Shrubs</td><td></td><td></td></tr> <tr><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td><td>Tall grasses, forbs</td><td></td><td></td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>Lawn, maintained landscape</td><td></td><td></td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>Boulders/Rocks/Rip Rap</td><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>Gravel/Sand</td><td></td><td></td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>Bare Soil</td><td></td><td></td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>Pavement, Structures, Gabions</td><td></td><td></td></tr> </table> <p>b) From the top of the streambank out to 50 feet:</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="2">Left</th> <th></th> <th colspan="2">Right</th> </tr> <tr> <th>P</th> <th>C</th> <th></th> <th>P</th> <th>C</th> </tr> <tr><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td>Trees</td><td></td><td></td></tr> <tr><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td><td>Bushes, Shrubs</td><td></td><td></td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>Tall grasses, forbs</td><td></td><td></td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>Lawn, maintained landscape</td><td></td><td></td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>Boulders/Rocks</td><td></td><td></td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>Gravel/Sand</td><td></td><td></td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>Bare Soil</td><td></td><td></td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>Pavement, Structures</td><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td></tr> </table>			Left			Right		P	C		P	C	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Trees			<input type="checkbox"/>	<input type="checkbox"/>	Bushes, Shrubs			<input checked="" type="checkbox"/>	<input type="checkbox"/>	Tall grasses, forbs			<input type="checkbox"/>	<input type="checkbox"/>	Lawn, maintained landscape			<input type="checkbox"/>	<input type="checkbox"/>	Boulders/Rocks/Rip Rap	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Gravel/Sand			<input type="checkbox"/>	<input type="checkbox"/>	Bare Soil			<input type="checkbox"/>	<input type="checkbox"/>	Pavement, Structures, Gabions			Left			Right		P	C		P	C	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Trees			<input checked="" type="checkbox"/>	<input type="checkbox"/>	Bushes, Shrubs			<input type="checkbox"/>	<input type="checkbox"/>	Tall grasses, forbs			<input type="checkbox"/>	<input type="checkbox"/>	Lawn, maintained landscape			<input type="checkbox"/>	<input type="checkbox"/>	Boulders/Rocks			<input type="checkbox"/>	<input type="checkbox"/>	Gravel/Sand			<input type="checkbox"/>	<input type="checkbox"/>	Bare Soil			<input type="checkbox"/>	<input type="checkbox"/>	Pavement, Structures	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
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<p>15. In the vicinity of the stream, Check "P" if present, "C" if common:</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="2">Left</th> <th></th> <th colspan="2">Right</th> </tr> <tr> <th>P</th> <th>C</th> <th></th> <th>P</th> <th>C</th> </tr> <tr><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td>Natural Streamside plant cover degraded</td><td></td><td></td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>Banks collapsed/eroded</td><td></td><td></td></tr> <tr><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td><td>Garbage/junk adjacent to the stream</td><td><input checked="" type="checkbox"/></td><td></td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>Foam or sheen on bank</td><td></td><td></td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>Mud, silt, or sand in or entering the stream</td><td></td><td></td></tr> <tr><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td><td>Garbage/junk in the stream</td><td><input checked="" type="checkbox"/></td><td></td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>Yard waste on bank (clippings, leaves, etc.)</td><td></td><td></td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>Livestock in or with unrestricted access</td><td></td><td></td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>Actively discharging pipes</td><td></td><td></td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>Other pipes</td><td></td><td></td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>Ditches entering stream</td><td></td><td></td></tr> </table>			Left			Right		P	C		P	C	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Natural Streamside plant cover degraded			<input type="checkbox"/>	<input type="checkbox"/>	Banks collapsed/eroded			<input checked="" type="checkbox"/>	<input type="checkbox"/>	Garbage/junk adjacent to the stream	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	Foam or sheen on bank			<input type="checkbox"/>	<input type="checkbox"/>	Mud, silt, or sand in or entering the stream			<input checked="" type="checkbox"/>	<input type="checkbox"/>	Garbage/junk in the stream	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	Yard waste on bank (clippings, leaves, etc.)			<input type="checkbox"/>	<input type="checkbox"/>	Livestock in or with unrestricted access			<input type="checkbox"/>	<input type="checkbox"/>	Actively discharging pipes			<input type="checkbox"/>	<input type="checkbox"/>	Other pipes			<input type="checkbox"/>	<input type="checkbox"/>	Ditches entering stream																																					
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<p>16. Ordinary High Water Mark Determination</p> <p>Check "P" if observed; Check "U" if used to determine OHWM</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>P</th> <th>U</th> <th></th> </tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>Natural line impressed on the bank</td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>Shelving</td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>Changes in the character of soil</td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>Destruction of terrestrial vegetation</td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>Presence of litter and debris</td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>Wracking</td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>Vegetation matted down; bent, or absent</td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>Sediment sorting</td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>Leaf litter disturbed or washed away</td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>Scour</td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>Deposition</td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>Multiple observed flow events</td></tr> <tr><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td>Bed and banks</td></tr> <tr><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td>Water staining</td></tr> <tr><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td>Change in plant community</td></tr> </table>			P	U		<input type="checkbox"/>	<input type="checkbox"/>	Natural line impressed on the bank	<input type="checkbox"/>	<input type="checkbox"/>	Shelving	<input type="checkbox"/>	<input type="checkbox"/>	Changes in the character of soil	<input type="checkbox"/>	<input type="checkbox"/>	Destruction of terrestrial vegetation	<input type="checkbox"/>	<input type="checkbox"/>	Presence of litter and debris	<input type="checkbox"/>	<input type="checkbox"/>	Wracking	<input type="checkbox"/>	<input type="checkbox"/>	Vegetation matted down; bent, or absent	<input type="checkbox"/>	<input type="checkbox"/>	Sediment sorting	<input type="checkbox"/>	<input type="checkbox"/>	Leaf litter disturbed or washed away	<input type="checkbox"/>	<input type="checkbox"/>	Scour	<input type="checkbox"/>	<input type="checkbox"/>	Deposition	<input type="checkbox"/>	<input type="checkbox"/>	Multiple observed flow events	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Bed and banks	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Water staining	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Change in plant community																																																				
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Datasheet entered by:		Last Revised: 09/25																																																																																																				

Stream Characterization **Date:** 8/23/2019 **Time:** **Site:** ORD **County:** Cook
Field ID: Stream/Ditch **Stream Name:** Ditch 2 **Investigators:** BJH, CBM, KAS

Weather in the past 24 hours: <input type="checkbox"/> Storm (heavy rain) <input type="checkbox"/> Overcast <input checked="" type="checkbox"/> Rain (steady rain) <input checked="" type="checkbox"/> Clear/Sunny <input type="checkbox"/> Showers (intermittent rain)	3. Circle flow regime: <input checked="" type="checkbox"/> EPHEMERAL PERENNIAL INTERMITTENT 4. Stream habitats present: <input type="checkbox"/> Pool(s) <input type="checkbox"/> Run(s) <input type="checkbox"/> Riffles(s) <input checked="" type="checkbox"/> N/A	9. Water Appearance: <input type="checkbox"/> clear <input type="checkbox"/> milky <input type="checkbox"/> foamy <input type="checkbox"/> turbid <input type="checkbox"/> light brown <input checked="" type="checkbox"/> dark brown <input type="checkbox"/> oily sheen <input type="checkbox"/> orange <input type="checkbox"/> none <input type="checkbox"/> greenish <input type="checkbox"/> other:	10. Water Odor: <input type="checkbox"/> sewage <input type="checkbox"/> chlorine <input type="checkbox"/> fishy <input type="checkbox"/> rotten eggs <input type="checkbox"/> organic <input checked="" type="checkbox"/> other: none																																																																																																				
1. a) Approximate depth of water in stream: <input type="checkbox"/> N/A 6 inches b) Approximate width of water flow: <input type="checkbox"/> N/A 3 ft c) Approximate width of stream: (from top of bank to top of bank) 25 ft d) Approximate height of banks (channel depth): left 8 ft right 8 ft e) Approximate depth of pool(s): <input checked="" type="checkbox"/> N/A	5. Stream Velocity: <input type="checkbox"/> fast <input type="checkbox"/> moderate <input type="checkbox"/> slow <input checked="" type="checkbox"/> N/A 6. Nature of the particles in the stream bottom: <table style="width:100%; text-align: center;"> <tr> <th></th> <th>None</th> <th>Little</th> <th>Some</th> <th>Most</th> </tr> <tr> <td>silt/clay/mud</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>sand</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>gravel</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>cobbles (2 - 10" diam.)</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>boulders (> 10" diam.)</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>bedrock</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>		None	Little	Some	Most	silt/clay/mud					sand					gravel					cobbles (2 - 10" diam.)					boulders (> 10" diam.)					bedrock					11. Presence of logs or large woody debris in stream: <input checked="" type="checkbox"/> None <input type="checkbox"/> Occasional <input type="checkbox"/> Plentiful 12. Pick the category that best describes the extent to which vegetation shades the stream: <input type="checkbox"/> 0% <input type="checkbox"/> 50% <input checked="" type="checkbox"/> 100% <input type="checkbox"/> 25% <input type="checkbox"/> 75% <input type="checkbox"/> other - %																																																																		
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2. Plant Species Adjacent to stream (scientific name): Trees: Understory: <i>Phragmites australis</i>	8. Facing upstream, does this stream have <u>tree</u> cover for 50 feet on the: left side <u>yes</u> right side <u>yes</u> What is the % cover of <u>trees</u> per side of the stream? left side <u>5</u> % right side <u>2</u> % Facing upstream, does this stream have <u>shrub</u> cover for 50 feet on the: left side <u>no</u> right side <u>no</u> What is the % cover of <u>shrubs</u> per side of the stream? Observer initials:																																																																																																						
14. Describe the streamside cover. Check "P" if present, "C" if common a) Along the water's edge and stream bank only (facing upstream): <table style="width:100%;"> <tr> <th colspan="2">Left</th> <th></th> <th colspan="2">Right</th> </tr> <tr> <th>P</th> <th>C</th> <th></th> <th>P</th> <th>C</th> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td></td> <td>Trees</td> <td><input checked="" type="checkbox"/></td> <td></td> </tr> <tr> <td></td> <td></td> <td>Bushes, Shrubs</td> <td></td> <td></td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td>Tall grasses, forbs</td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td></td> <td></td> <td>Lawn, maintained landscape</td> <td></td> <td></td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td></td> <td>Boulders/Rocks/Rip Rap</td> <td><input checked="" type="checkbox"/></td> <td></td> </tr> <tr> <td></td> <td></td> <td>Gravel/Sand</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>Bare Soil</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>Pavement, Structures, Gabions</td> <td></td> <td></td> </tr> </table> b) From the top of the streambank out to 50 feet: <table style="width:100%;"> <tr> <th colspan="2">Left</th> <th></th> <th colspan="2">Right</th> </tr> <tr> <th>P</th> <th>C</th> <th></th> <th>P</th> <th>C</th> </tr> <tr> <td></td> <td></td> <td>Trees</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>Bushes, Shrubs</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>Tall grasses, forbs</td> <td><input checked="" type="checkbox"/></td> <td></td> </tr> <tr> <td></td> <td></td> <td>Lawn, maintained landscape</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>Boulders/Rocks</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>Gravel/Sand</td> <td></td> <td></td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td>Bare Soil</td> <td><input checked="" type="checkbox"/></td> <td></td> </tr> <tr> <td></td> <td></td> <td>Pavement, Structures</td> <td></td> <td></td> </tr> </table>				Left			Right		P	C		P	C	<input checked="" type="checkbox"/>		Trees	<input checked="" type="checkbox"/>				Bushes, Shrubs			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Tall grasses, forbs	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			Lawn, maintained landscape			<input checked="" type="checkbox"/>		Boulders/Rocks/Rip Rap	<input checked="" type="checkbox"/>				Gravel/Sand					Bare Soil					Pavement, Structures, Gabions			Left			Right		P	C		P	C			Trees					Bushes, Shrubs					Tall grasses, forbs	<input checked="" type="checkbox"/>				Lawn, maintained landscape					Boulders/Rocks					Gravel/Sand			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Bare Soil	<input checked="" type="checkbox"/>				Pavement, Structures		
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19. Additional Comments located between parking lots and related roads																																																																																																							
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Stream Characterization **Date:** 8/12/2019 **Time:** 2:10pm **Site:** ORD **County:** Cook
Field ID: Stream/Ditch **Stream Name:** Ditch 3 **Investigators:** BJH

Weather in the past 24 hours: <input type="checkbox"/> Storm (heavy rain) <input checked="" type="checkbox"/> Overcast <input type="checkbox"/> Rain (steady rain) <input type="checkbox"/> Clear/Sunny <input type="checkbox"/> Showers (intermittent rain)		3. Circle flow regime: EPHEMERAL <input checked="" type="checkbox"/> PERENNIAL INTERMITTENT 4. Stream habitats present: <input type="checkbox"/> Pool(s) <input type="checkbox"/> Run(s) <input type="checkbox"/> Riffles(s) <input checked="" type="checkbox"/> N/A		9. Water Appearance: <input type="checkbox"/> clear <input type="checkbox"/> milky <input type="checkbox"/> foamy <input type="checkbox"/> turbid <input type="checkbox"/> light brown <input type="checkbox"/> dark brown <input type="checkbox"/> oily sheen <input type="checkbox"/> orange <input type="checkbox"/> none <input checked="" type="checkbox"/> greenish <input type="checkbox"/> other:		10. Water Odor: <input type="checkbox"/> sewage <input type="checkbox"/> chlorine <input type="checkbox"/> fishy <input type="checkbox"/> rotten eggs <input type="checkbox"/> organic <input checked="" type="checkbox"/> other: none																																																																																																																																																	
1. a) Approximate depth of water in stream: <input type="checkbox"/> N/A 6 in. or less b) Approximate width of water flow: <input type="checkbox"/> N/A 5 ft c) Approximate width of stream: (from top of bank to top of bank) 15 ft d) Approximate height of banks (channel depth): left 1-2 ft right 1-2 ft e) Approximate depth of pool(s): <input checked="" type="checkbox"/> N/A		5. Stream Velocity: <input type="checkbox"/> fast <input type="checkbox"/> moderate <input checked="" type="checkbox"/> slow <input type="checkbox"/> N/A to stagnant 6. Nature of the particles in the stream bottom: <table border="1" style="width:100%; text-align: center;"> <tr> <th></th> <th>None</th> <th>Little</th> <th>Some</th> <th>Most</th> </tr> <tr> <td>silt/clay/mud</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>sand</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>gravel</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>cobbles (2 - 10" diam.)</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>boulders (> 10" diam.)</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>bedrock</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>			None	Little	Some	Most	silt/clay/mud					sand					gravel					cobbles (2 - 10" diam.)					boulders (> 10" diam.)					bedrock					11. Presence of logs or large woody debris in stream: <input checked="" type="checkbox"/> None <input type="checkbox"/> Occasional <input type="checkbox"/> Plentiful 12. Pick the category that best describes the extent to which vegetation shades the stream: <input checked="" type="checkbox"/> 0% <input type="checkbox"/> 50% <input type="checkbox"/> 100% <input type="checkbox"/> 25% <input type="checkbox"/> 75% <input type="checkbox"/> other - %																																																																																																																
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Stream Characterization **Date:** 8/28/2019 **Time:** 1:30pm **Site:** ORD **County:** Cook
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<p>Weather in the past 24 hours:</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td><input type="checkbox"/> Storm (heavy rain)</td> <td><input type="checkbox"/> Overcast</td> </tr> <tr> <td><input type="checkbox"/> Rain (steady rain)</td> <td><input checked="" type="checkbox"/> Clear/Sunny</td> </tr> <tr> <td><input type="checkbox"/> Showers (intermittent rain)</td> <td></td> </tr> </table> <p>1. a) Approximate depth of water in stream: <input type="checkbox"/> N/A 3 inches</p> <p>b) Approximate width of water flow: <input type="checkbox"/> N/A 8 ft</p> <p>c) Approximate width of stream: (from top of bank to top of bank)</p> <p>d) Approximate height of banks (channel depth): left <input type="text" value="25 ft"/> right <input type="text" value="25 ft"/></p> <p>e) Approximate depth of pool(s): <input checked="" type="checkbox"/> N/A <input type="checkbox"/></p> <p>2. Plant Species Adjacent to stream (scientific name):</p> <p>Trees:</p> <p>Understory:</p> <p><i>Cyperus esculentus, Scirpus fluviatilis, Echinochloa crus-galli, Persicaria lapathifolia</i></p>	<input type="checkbox"/> Storm (heavy rain)	<input type="checkbox"/> Overcast	<input type="checkbox"/> Rain (steady rain)	<input checked="" type="checkbox"/> Clear/Sunny	<input type="checkbox"/> Showers (intermittent rain)		<p>3. Circle flow regime: <u>EPHEMERAL</u> PERENNIAL <u>INTERMITTENT</u></p> <p>4. Stream habitats present:</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td><input type="checkbox"/> Pool(s)</td> <td><input type="checkbox"/> Run(s)</td> </tr> <tr> <td><input type="checkbox"/> Riffles(s)</td> <td><input checked="" type="checkbox"/> N/A</td> </tr> </table> <p>5. Stream Velocity: <input type="checkbox"/> fast <input type="checkbox"/> moderate <input checked="" type="checkbox"/> slow <input type="checkbox"/> N/A</p> <p>6. Nature of the particles in the stream bottom:</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>None</th> <th>Little</th> <th>Some</th> <th>Most</th> </tr> </thead> <tbody> <tr> <td>silt/clay/mud</td> <td></td> <td></td> <td></td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td>sand</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>gravel</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>cobbles (2 - 10" diam.)</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>boulders (> 10" diam.)</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>bedrock</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>7. Presence of naturally occurring organic material in stream: <input type="checkbox"/> None <input type="checkbox"/> Occasional <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Plentiful</p> <p>8. Facing upstream, does this stream have <u>tree</u> cover for 50 feet on the: left side <input type="text" value="no"/> right side <input type="text" value="no"/></p> <p>What is the % cover of <u>trees</u> per side of the stream? left side <input type="text" value="0"/> % right side <input type="text" value="0"/> %</p> <p>Facing upstream, does this stream have <u>shrub</u> cover for 50 feet on the: left side <input type="text" value="no"/> right side <input type="text" value="no"/></p> <p>What is the % cover of <u>shrubs</u> per side of the stream? Observer initials: <input type="text"/></p>	<input type="checkbox"/> Pool(s)	<input type="checkbox"/> Run(s)	<input type="checkbox"/> Riffles(s)	<input checked="" type="checkbox"/> N/A		None	Little	Some	Most	silt/clay/mud				<input checked="" type="checkbox"/>	sand					gravel					cobbles (2 - 10" diam.)					boulders (> 10" diam.)					bedrock					<p>9. Water Appearance:</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr><td><input checked="" type="checkbox"/></td><td>clear</td></tr> <tr><td><input type="checkbox"/></td><td>milky</td></tr> <tr><td><input type="checkbox"/></td><td>foamy</td></tr> <tr><td><input type="checkbox"/></td><td>turbid</td></tr> <tr><td><input type="checkbox"/></td><td>light brown</td></tr> <tr><td><input type="checkbox"/></td><td>dark brown</td></tr> <tr><td><input type="checkbox"/></td><td>oily sheen</td></tr> <tr><td><input type="checkbox"/></td><td>orange</td></tr> <tr><td><input type="checkbox"/></td><td>greenish</td></tr> <tr><td><input type="checkbox"/></td><td>other:</td></tr> </table> <p>10. Water Odor: <input type="checkbox"/> sewage <input type="checkbox"/> chlorine <input type="checkbox"/> fishy <input type="checkbox"/> rotten eggs <input type="checkbox"/> organic <input checked="" type="checkbox"/> other: none</p> <p>11. Presence of logs or large woody debris in stream: <input checked="" type="checkbox"/> None <input type="checkbox"/> Occasional <input type="checkbox"/> Plentiful</p> <p>12. Pick the category that best describes the extent to which vegetation <u>shades</u> the stream: <input type="checkbox"/> 0% <input type="checkbox"/> 50% <input type="checkbox"/> 100% <input type="checkbox"/> 25% <input checked="" type="checkbox"/> 75% <input type="checkbox"/> other - %</p> <p>13. Pick the description that best fits the stream bank and the channel (facing upstream):</p> <p>a) Stream bank:</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Left</th> <th></th> <th>Right</th> </tr> </thead> <tbody> <tr> <td><input type="checkbox"/></td> <td>Vertical/undercut</td> <td><input type="checkbox"/></td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td>Steeply sloping (>30°)</td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/></td> <td>Gradual/No slope (<30°)</td> <td><input type="checkbox"/></td> </tr> </tbody> </table> <p>b) Shape of the channel:</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td><input checked="" type="checkbox"/></td> <td>Narrow, Deep</td> <td>Wide, Deep</td> </tr> <tr> <td><input type="checkbox"/></td> <td>Narrow, Shallow</td> <td>Wide, Shallow</td> </tr> </table>	<input checked="" type="checkbox"/>	clear	<input type="checkbox"/>	milky	<input type="checkbox"/>	foamy	<input type="checkbox"/>	turbid	<input type="checkbox"/>	light brown	<input type="checkbox"/>	dark brown	<input type="checkbox"/>	oily sheen	<input type="checkbox"/>	orange	<input type="checkbox"/>	greenish	<input type="checkbox"/>	other:	Left		Right	<input type="checkbox"/>	Vertical/undercut	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Steeply sloping (>30°)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Gradual/No slope (<30°)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Narrow, Deep	Wide, Deep	<input type="checkbox"/>	Narrow, Shallow	Wide, Shallow																																																																																		
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<p>14. Describe the streamside cover. 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In the vicinity of the stream, Check "P" if present, "C" if common:</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Left</th> <th></th> <th colspan="2">Right</th> </tr> <tr> <th>P</th> <th>C</th> <th></th> <th>P</th> <th>C</th> </tr> </thead> <tbody> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>Natural Streamside plant cover degraded</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>Banks collapsed/eroded</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>Garbage/junk adjacent to the stream</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>Foam or sheen on bank</td><td><input type="checkbox"/></td><td><input 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Stream Characterization **Date:** 8/28/2019 **Time:** 2:00pm **Site:** ORD **County:** Cook
Field ID: Stream/Ditch **Stream Name:** Ditch 6 **Investigators:** CBM, BJH

Weather in the past 24 hours: <input type="checkbox"/> Storm (heavy rain) <input type="checkbox"/> Overcast <input checked="" type="checkbox"/> Rain (steady rain) <input checked="" type="checkbox"/> Clear/Sunny <input type="checkbox"/> Showers (intermittent rain)		3. Circle flow regime: <u>EPHEMERAL</u> PERENNIAL <input checked="" type="checkbox"/> INTERMITTENT		9. Water Appearance: <input checked="" type="checkbox"/> clear <input type="checkbox"/> milky <input type="checkbox"/> foamy <input type="checkbox"/> turbid <input type="checkbox"/> light brown <input type="checkbox"/> dark brown <input type="checkbox"/> oily sheen <input type="checkbox"/> orange <input type="checkbox"/> none <input type="checkbox"/> greenish <input type="checkbox"/> other:		10. Water Odor: <input type="checkbox"/> sewage <input type="checkbox"/> chlorine <input type="checkbox"/> fishy <input type="checkbox"/> rotten eggs <input type="checkbox"/> organic <input checked="" type="checkbox"/> other: none																																																																																																																							
1. a) Approximate depth of water in stream: <input type="checkbox"/> N/A 12 ft		4. Stream habitats present: <input type="checkbox"/> Pool(s) <input type="checkbox"/> Run(s) <input type="checkbox"/> Riffles(s) <input checked="" type="checkbox"/> N/A		11. Presence of logs or large woody debris in stream: <input checked="" type="checkbox"/> None <input type="checkbox"/> Occasional <input type="checkbox"/> Plentiful		12. Pick the category that best describes the extent to which vegetation shades the stream: <input type="checkbox"/> 0% <input type="checkbox"/> 50% <input type="checkbox"/> 100% <input type="checkbox"/> 25% <input checked="" type="checkbox"/> 75% <input type="checkbox"/> other - %																																																																																																																							
b) Approximate width of water flow: <input type="checkbox"/> N/A 3-4 ft		5. Stream Velocity: <input type="checkbox"/> fast <input type="checkbox"/> moderate <input checked="" type="checkbox"/> slow <input type="checkbox"/> N/A																																																																																																																											
c) Approximate width of stream: (from top of bank to top of bank) 35 ft		6. Nature of the particles in the stream bottom: <table border="1" style="width:100%; text-align: center;"> <tr> <td></td> <td>None</td> <td>Little</td> <td>Some</td> <td>Most</td> </tr> <tr> <td>silt/clay/mud</td> <td></td> <td></td> <td></td> <td>X</td> </tr> <tr> <td>sand</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>gravel</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>cobbles (2 - 10" diam.)</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>boulders (> 10" diam.)</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>bedrock</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>			None	Little	Some	Most	silt/clay/mud				X	sand					gravel					cobbles (2 - 10" diam.)					boulders (> 10" diam.)					bedrock					13. Pick the description that best fits the stream bank and the channel (facing upstream): a) Stream bank: <table border="1" style="width:100%; text-align: center;"> <tr> <td>Left</td> <td>Vertical/undercut</td> <td>Right</td> </tr> <tr> <td></td> <td>Steeply sloping (>30°)</td> <td>X</td> </tr> <tr> <td>X</td> <td>Gradual/No slope (<30°)</td> <td></td> </tr> </table>		Left	Vertical/undercut	Right		Steeply sloping (>30°)	X	X	Gradual/No slope (<30°)																																																																													
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d) Approximate height of banks (channel depth): left 3 ft right 20 ft		7. Presence of naturally occurring organic material in stream: <input type="checkbox"/> None <input type="checkbox"/> Occasional <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Plentiful		b) Shape of the channel: <input type="checkbox"/> Narrow, Deep <input type="checkbox"/> Wide, Deep <input checked="" type="checkbox"/> Narrow, Shallow <input type="checkbox"/> Wide, Shallow																																																																																																																									
e) Approximate depth of pool(s): <input checked="" type="checkbox"/> N/A		8. Facing upstream, does this stream have <u>tree</u> cover for 50 feet on the: left side <u>no</u> right side <u>no</u> What is the % cover of <u>trees</u> per side of the stream? left side <u>0</u> % right side <u>0</u> % Facing upstream, does this stream have <u>shrub</u> cover for 50 feet on the: left side <u>no</u> right side <u>no</u> What is the % cover of <u>shrubs</u> per side of the stream? Observer initials:																																																																																																																											
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Datasheet entered by: _____ Last Revised: 09/25																																																																																																																													

Stream Characterization **Date:** 9/26/2019 **Time:** 1:10pm **Site:** ORD **County:** Cook
Field ID: Stream Ditch **Stream Name:** Ditch 7 **Investigators:** CBM, BJH

Weather in the past 24 hours: <input type="checkbox"/> Storm (heavy rain) <input type="checkbox"/> Overcast <input checked="" type="checkbox"/> Rain (steady rain) <input checked="" type="checkbox"/> Clear/Sunny <input type="checkbox"/> Showers (intermittent rain)		3. Circle flow regime: <u>EPHEMERAL</u> PERENNIAL <u>INTERMITTENT</u>		9. Water Appearance: <input type="checkbox"/> clear <input type="checkbox"/> milky <input type="checkbox"/> foamy <input type="checkbox"/> turbid <input type="checkbox"/> light brown <input checked="" type="checkbox"/> dark brown <input type="checkbox"/> oily sheen <input type="checkbox"/> orange <input type="checkbox"/> none <input type="checkbox"/> greenish <input type="checkbox"/> other:		10. Water Odor: <input type="checkbox"/> sewage <input type="checkbox"/> chlorine <input type="checkbox"/> fishy <input type="checkbox"/> rotten eggs <input type="checkbox"/> organic <input checked="" type="checkbox"/> other: none																																																																																																																																																	
1. a) Approximate depth of water in stream: <input type="checkbox"/> N/A 3-4 inches b) Approximate width of water flow: <input type="checkbox"/> N/A 3-8 ft c) Approximate width of stream: (from top of bank to top of bank) 25 ft d) Approximate height of banks (channel depth): left 3 ft right 10 ft e) Approximate depth of pool(s): <input checked="" type="checkbox"/> N/A		4. Stream habitats present: <input type="checkbox"/> Pool(s) <input type="checkbox"/> Run(s) <input type="checkbox"/> Riffles(s) <input checked="" type="checkbox"/> N/A 5. Stream Velocity: <input type="checkbox"/> fast <input type="checkbox"/> moderate <input type="checkbox"/> slow <input checked="" type="checkbox"/> N/A 6. Nature of the particles in the stream bottom: <table border="1" style="width:100%; text-align: center;"> <tr> <td></td> <td>None</td> <td>Little</td> <td>Some</td> <td>Most</td> </tr> <tr> <td>silt/clay/mud</td> <td></td> <td></td> <td></td> <td>X</td> </tr> <tr> <td>sand</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>gravel</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>cobbles (2 - 10" diam.)</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>boulders (> 10" diam.)</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>bedrock</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>			None	Little	Some	Most	silt/clay/mud				X	sand					gravel					cobbles (2 - 10" diam.)					boulders (> 10" diam.)					bedrock					11. Presence of logs or large woody debris in stream: <input checked="" type="checkbox"/> None <input type="checkbox"/> Occasional <input type="checkbox"/> Plentiful 12. Pick the category that best describes the extent to which vegetation shades the stream: <input checked="" type="checkbox"/> 0% <input type="checkbox"/> 50% <input type="checkbox"/> 100% <input type="checkbox"/> 25% <input type="checkbox"/> 75% <input type="checkbox"/> other - %																																																																																																																
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2. Plant Species Adjacent to stream (scientific name): Trees: Understory: <i>Typha angustifolia, Solidago sempervirens, Apocynum cannabinum, Scirpus fluviatilis</i>		8. Facing upstream, does this stream have <u>tree</u> cover for 50 feet on the: left side <u>no</u> right side <u>no</u> What is the % cover of <u>trees</u> per side of the stream? left side <u>0</u> % right side <u>0</u> % Facing upstream, does this stream have <u>shrub</u> cover for 50 feet on the: left side <u>no</u> right side <u>no</u> What is the % cover of <u>shrubs</u> per side of the stream? Observer initials:		13. Pick the description that best fits the stream bank and the channel (facing upstream): a) Stream bank: <table border="1" style="width:100%; text-align: center;"> <tr> <td>Left</td> <td>Vertical/undercut</td> <td>Right</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td>Steeply sloping (>30°)</td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td></td> <td>Gradual/No slope (<30°)</td> <td></td> </tr> </table> b) Shape of the channel: <input checked="" type="checkbox"/> Narrow, Deep <input type="checkbox"/> Wide, Deep <input checked="" type="checkbox"/> Narrow, Shallow <input type="checkbox"/> Wide, Shallow		Left	Vertical/undercut	Right	<input checked="" type="checkbox"/>	Steeply sloping (>30°)	<input checked="" type="checkbox"/>		Gradual/No slope (<30°)																																																																																																																																										
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14. Describe the streamside cover. Check "P" if present, "C" if common a) Along the water's edge and stream bank only (facing upstream): <table border="1" style="width:100%; text-align: center;"> <tr> <th colspan="2">Left</th> <th></th> <th colspan="2">Right</th> </tr> <tr> <th>P</th> <th>C</th> <th></th> <th>P</th> <th>C</th> </tr> <tr> <td></td> <td></td> <td>Trees</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>Bushes, Shrubs</td> <td></td> <td></td> </tr> <tr> <td>X</td> <td>X</td> <td>Tall grasses, forbs</td> <td>X</td> <td>X</td> </tr> <tr> <td></td> <td></td> <td>Lawn, maintained landscape</td> <td>X</td> <td></td> </tr> <tr> <td></td> <td></td> <td>Boulders/Rocks/Rip Rap</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>Gravel/Sand</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>Bare Soil</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>Pavement, Structures, Gabions</td> <td></td> <td></td> </tr> </table> b) From the top of the streambank out to 50 feet: <table border="1" style="width:100%; text-align: center;"> <tr> <th colspan="2">Left</th> <th></th> <th colspan="2">Right</th> </tr> <tr> <th>P</th> <th>C</th> <th></th> <th>P</th> <th>C</th> </tr> <tr> <td></td> <td></td> <td>Trees</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>Bushes, Shrubs</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>Tall grasses, forbs</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>Lawn, maintained landscape</td> <td>X</td> <td>X</td> </tr> <tr> <td></td> <td></td> <td>Boulders/Rocks</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>Gravel/Sand</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>Bare Soil</td> <td></td> <td></td> </tr> <tr> <td>X</td> <td>X</td> <td>Pavement, Structures</td> <td></td> <td></td> </tr> </table>		Left			Right		P	C		P	C			Trees					Bushes, Shrubs			X	X	Tall grasses, forbs	X	X			Lawn, maintained landscape	X				Boulders/Rocks/Rip Rap					Gravel/Sand					Bare Soil					Pavement, Structures, Gabions			Left			Right		P	C		P	C			Trees					Bushes, Shrubs					Tall grasses, forbs					Lawn, maintained landscape	X	X			Boulders/Rocks					Gravel/Sand					Bare Soil			X	X	Pavement, Structures			16. Ordinary High Water Mark Determination Check "P" if observed; Check "U" if used to determine OHWM <table border="1" style="width:100%; text-align: center;"> <tr> <th>P</th> <th>U</th> <th></th> </tr> <tr> <td></td> <td></td> <td>Natural line impressed on the bank</td> </tr> <tr> <td></td> <td></td> <td>Shelving</td> </tr> <tr> <td></td> <td></td> <td>Changes in the character of soil</td> </tr> <tr> <td></td> <td></td> <td>Destruction of terrestrial vegetation</td> </tr> <tr> <td></td> <td></td> <td>Presence of litter and debris</td> </tr> <tr> <td></td> <td></td> <td>Wracking</td> </tr> <tr> <td></td> <td></td> <td>Vegetation matted down; bent, or absent</td> </tr> <tr> <td></td> <td></td> <td>Sediment sorting</td> </tr> <tr> <td></td> <td></td> <td>Leaf litter disturbed or washed away</td> </tr> <tr> <td></td> <td></td> <td>Scour</td> </tr> <tr> <td></td> <td></td> <td>Deposition</td> </tr> <tr> <td></td> <td></td> <td>Multiple observed flow events</td> </tr> <tr> <td></td> <td></td> <td>Bed and banks</td> </tr> <tr> <td>X</td> <td>X</td> <td>Water staining</td> </tr> <tr> <td></td> <td></td> <td>Change in plant community</td> </tr> </table>		P	U				Natural line impressed on the bank			Shelving			Changes in the character of soil			Destruction of terrestrial vegetation			Presence of litter and debris			Wracking			Vegetation matted down; bent, or absent			Sediment sorting			Leaf litter disturbed or washed away			Scour			Deposition			Multiple observed flow events			Bed and banks	X	X	Water staining			Change in plant community
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Stream Characterization **Date:** 9/26/2019 **Time:** 5:00pm **Site:** ORD **County:** DuPage
Field ID: Stream/Ditch **Stream Name:** Ditch 8 **Investigators:** CBM, BJH

Weather in the past 24 hours: <input type="checkbox"/> Storm (heavy rain) <input type="checkbox"/> Overcast <input checked="" type="checkbox"/> Rain (steady rain) <input checked="" type="checkbox"/> Clear/Sunny <input type="checkbox"/> Showers (intermittent rain)		3. Circle flow regime: <u>EPHEMERAL</u> PERENNIAL <input checked="" type="checkbox"/> INTERMITTENT		9. Water Appearance: <input type="checkbox"/> clear <input type="checkbox"/> milky <input type="checkbox"/> foamy <input type="checkbox"/> turbid <input type="checkbox"/> light brown <input type="checkbox"/> dark brown <input type="checkbox"/> oily sheen <input type="checkbox"/> orange <input type="checkbox"/> none <input checked="" type="checkbox"/> greenish <input checked="" type="checkbox"/> other:		10. Water Odor: <input type="checkbox"/> sewage <input type="checkbox"/> chlorine <input type="checkbox"/> fishy <input type="checkbox"/> rotten eggs <input type="checkbox"/> organic <input checked="" type="checkbox"/> other: none																																																																																																																																																	
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Stream Characterization **Date:** 8/28/2019 **Time:** 11:55 AM **Site:** ORD **County:** Cook
Field ID: Stream/Ditch **Stream Name:** Ditch 9 **Investigators:** CBM, BJH

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Stream Characterization **Date:** 7/15/2019 **Time:** AM **Site:** ORD **County:** Cook
Field ID: Stream/Ditch **Stream Name:** Ditch 10 **Investigators:** BJH, KAS

Weather in the past 24 hours: <input type="checkbox"/> Storm (heavy rain) <input type="checkbox"/> Overcast <input type="checkbox"/> Rain (steady rain) <input checked="" type="checkbox"/> Clear/Sunny <input type="checkbox"/> Showers (intermittent rain)		3. Circle flow regime: <u>EPHEMERAL</u> PERENNIAL <u>INTERMITTENT</u>		9. Water Appearance: <input type="checkbox"/> clear <input type="checkbox"/> milky <input type="checkbox"/> foamy <input checked="" type="checkbox"/> turbid <input type="checkbox"/> light brown <input type="checkbox"/> dark brown <input type="checkbox"/> oily sheen <input type="checkbox"/> orange <input type="checkbox"/> none <input type="checkbox"/> greenish <input type="checkbox"/> other:		10. Water Odor: <input type="checkbox"/> sewage <input type="checkbox"/> chlorine <input type="checkbox"/> fishy <input type="checkbox"/> rotten eggs <input type="checkbox"/> organic <input type="checkbox"/> other: none																																																																																																																																																	
1. a) Approximate depth of water in stream: <input type="checkbox"/> N/A up to 12 inches b) Approximate width of water flow: <input type="checkbox"/> N/A 6 feet c) Approximate width of stream: (from top of bank to top of bank) 20 feet d) Approximate height of banks (channel depth): left 12 feet right 12 feet e) Approximate depth of pool(s): <input checked="" type="checkbox"/> N/A		4. Stream habitats present: <input type="checkbox"/> Pool(s) <input type="checkbox"/> Run(s) <input type="checkbox"/> Riffles(s) <input checked="" type="checkbox"/> N/A stagnant 5. Stream Velocity: <input type="checkbox"/> fast <input type="checkbox"/> moderate <input checked="" type="checkbox"/> slow <input type="checkbox"/> N/A 6. Nature of the particles in the stream bottom: <table border="1"> <thead> <tr> <th></th> <th>None</th> <th>Little</th> <th>Some</th> <th>Most</th> </tr> </thead> <tbody> <tr> <td>silt/clay/mud</td> <td></td> <td></td> <td></td> <td>X</td> </tr> <tr> <td>sand</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>gravel</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>cobbles (2 - 10" diam.)</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>boulders (> 10" diam.)</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>bedrock</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>			None	Little	Some	Most	silt/clay/mud				X	sand					gravel					cobbles (2 - 10" diam.)					boulders (> 10" diam.)					bedrock					11. Presence of logs or large woody debris in stream: <input type="checkbox"/> None <input checked="" type="checkbox"/> Occasional <input type="checkbox"/> Plentiful 12. Pick the category that best describes the extent to which vegetation <u>shades</u> the stream: <input type="checkbox"/> 0% <input checked="" type="checkbox"/> 50% <input type="checkbox"/> 100% <input type="checkbox"/> 25% <input type="checkbox"/> 75% <input type="checkbox"/> other - %																																																																																																																
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2. Plant Species Adjacent to stream (scientific name): Trees: <i>Populus deltoides, Rhamnus cathartica, Morus alba, Fraxinus pennsylvanica, Morus rubra</i> Understory: <i>Typha angustifolia, Nepeta cataria, Lythrum salicaria, Dipsacus laciniatus, Dipsacus fullonum, Phragmites australis, Hordeum jubatum, Vitis riparia, Phalaris arundinacea</i>		7. Presence of naturally occurring organic material in stream: <input type="checkbox"/> None <input type="checkbox"/> Occasional <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Plentiful 8. Facing upstream, does this stream have <u>tree</u> cover for 50 feet on the: left side <u>yes</u> right side <u>yes</u> What is the % cover of <u>trees</u> per side of the stream? left side <u>33</u> % right side <u>33</u> % Facing upstream, does this stream have <u>shrub</u> cover for 50 feet on the: left side <u>yes</u> right side <u>yes</u> What is the % cover of <u>shrubs</u> per side of the stream? 60 40 Observer initials: <u>ks</u>		13. Pick the description that best fits the stream bank and the channel (facing upstream): a) Stream bank: <table border="1"> <thead> <tr> <th>Left</th> <th></th> <th>Right</th> </tr> </thead> <tbody> <tr> <td></td> <td>Vertical/undercut</td> <td></td> </tr> <tr> <td>X</td> <td>Steeply sloping (>30°)</td> <td>X</td> </tr> <tr> <td></td> <td>Gradual/No slope (<30°)</td> <td></td> </tr> </tbody> </table> b) Shape of the channel: <input type="checkbox"/> Narrow, Deep <input type="checkbox"/> Wide, Deep <input checked="" type="checkbox"/> Narrow, Shallow <input type="checkbox"/> Wide, Shallow		Left		Right		Vertical/undercut		X	Steeply sloping (>30°)	X		Gradual/No slope (<30°)																																																																																																																																							
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Stream Characterization **Date:** 7/15/2019 **Time:** AM **Site:** ORD **County:** Cook
Field ID: Stream/Ditch **Stream Name:** Ditch 11 **Investigators:** BJH, KAS

Weather in the past 24 hours: <input type="checkbox"/> Storm (heavy rain) <input type="checkbox"/> Overcast <input checked="" type="checkbox"/> Rain (steady rain) <input checked="" type="checkbox"/> Clear/Sunny <input type="checkbox"/> Showers (intermittent rain)		3. Circle flow regime: EPHEMERAL PERENNIAL INTERMITTENT		9. Water Appearance: <input type="checkbox"/> clear <input type="checkbox"/> milky <input type="checkbox"/> foamy <input type="checkbox"/> turbid <input type="checkbox"/> light brown <input type="checkbox"/> dark brown <input type="checkbox"/> oily sheen <input type="checkbox"/> orange <input type="checkbox"/> none <input checked="" type="checkbox"/> greenish <input checked="" type="checkbox"/> other:		10. Water Odor: <input type="checkbox"/> sewage <input type="checkbox"/> chlorine <input type="checkbox"/> fishy <input type="checkbox"/> rotten eggs <input type="checkbox"/> organic <input checked="" type="checkbox"/> other: none																																																																																																																																																																																																												
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b) Approximate width of water flow: <input type="checkbox"/> N/A		5. Stream Velocity: <input type="checkbox"/> fast <input type="checkbox"/> moderate <input type="checkbox"/> slow <input checked="" type="checkbox"/> N/A		13. Pick the description that best fits the stream bank and the channel (facing upstream): a) Stream bank: <table border="1"> <tr> <td>Left</td> <td>Vertical/undercut</td> <td>Right</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td>Steeply sloping (>30°)</td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td></td> <td>Gradual/No slope (<30°)</td> <td></td> </tr> </table>		Left	Vertical/undercut	Right	<input checked="" type="checkbox"/>	Steeply sloping (>30°)	<input checked="" type="checkbox"/>		Gradual/No slope (<30°)		b) Shape of the channel: <input type="checkbox"/> Narrow, Deep <input type="checkbox"/> Wide, Deep <input checked="" type="checkbox"/> Narrow, Shallow <input type="checkbox"/> Wide, Shallow																																																																																																																																																																																																			
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2. Plant Species Adjacent to stream (scientific name): Trees: <i>Salix interior</i> , <i>Acer negundo</i> , <i>Rhamnus cathartica</i> , <i>Fraxinus pennsylvanica</i> Understory: <i>Typha angustifolia</i> , <i>Dipsacus laciniatus</i> , <i>Nepeta cataria</i>		7. Presence of naturally occurring organic material in stream: <input type="checkbox"/> None <input checked="" type="checkbox"/> Occasional <input type="checkbox"/> Unknown <input type="checkbox"/> Plentiful		16. Ordinary High Water Mark Determination Check "P" if observed; Check "U" if used to determine OHWM <table border="1"> <tr> <td>P</td> <td>U</td> <td></td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td></td> <td>Natural line impressed on the bank</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td></td> <td>Shelving</td> </tr> <tr> <td></td> <td></td> <td>Changes in the character of soil</td> </tr> <tr> <td></td> <td></td> <td>Destruction of terrestrial vegetation</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td>Presence of litter and debris</td> </tr> <tr> <td></td> <td></td> <td>Wracking</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td>Vegetation matted down; bent, or absent</td> </tr> <tr> <td></td> <td></td> <td>Sediment sorting</td> </tr> <tr> <td></td> <td></td> <td>Leaf litter disturbed or washed away</td> </tr> <tr> <td></td> <td></td> <td>Scour</td> </tr> <tr> <td></td> <td></td> <td>Deposition</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td>Multiple observed flow events</td> </tr> <tr> <td></td> <td></td> <td>Bed and banks</td> </tr> <tr> <td></td> <td></td> <td>Water staining</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td>Change in plant community</td> </tr> </table>		P	U		<input checked="" type="checkbox"/>		Natural line impressed on the bank	<input checked="" type="checkbox"/>		Shelving			Changes in the character of soil			Destruction of terrestrial vegetation	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Presence of litter and debris			Wracking	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Vegetation matted down; bent, or absent			Sediment sorting			Leaf litter disturbed or washed away			Scour			Deposition	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Multiple observed flow events			Bed and banks			Water staining	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Change in plant community	17. Waters Type <table border="1"> <tr> <td><input type="checkbox"/></td> <td>DELINEATE</td> <td><input type="checkbox"/></td> <td>RPWNN</td> </tr> <tr> <td><input type="checkbox"/></td> <td>TNW</td> <td><input type="checkbox"/></td> <td>NRPW</td> </tr> <tr> <td><input type="checkbox"/></td> <td>TNWW</td> <td><input type="checkbox"/></td> <td>NRPWW</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td>RPW</td> <td><input type="checkbox"/></td> <td>ISOLATE</td> </tr> <tr> <td></td> <td>RPWWD</td> <td><input type="checkbox"/></td> <td>UPLAND</td> </tr> <tr> <td></td> <td></td> <td><input type="checkbox"/></td> <td>TNWRPW</td> </tr> </table>		<input type="checkbox"/>	DELINEATE	<input type="checkbox"/>	RPWNN	<input type="checkbox"/>	TNW	<input type="checkbox"/>	NRPW	<input type="checkbox"/>	TNWW	<input type="checkbox"/>	NRPWW	<input checked="" type="checkbox"/>	RPW	<input type="checkbox"/>	ISOLATE		RPWWD	<input type="checkbox"/>	UPLAND			<input type="checkbox"/>	TNWRPW																																																																																																																																			
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18. Observed Fauna (make note of wildlife deterrents such as bird wires) List <input type="checkbox"/> Invertebrates <input checked="" type="checkbox"/> Birds red-wing blackbirds <input type="checkbox"/> Mammals <input type="checkbox"/> Reptile/Amphians <input type="checkbox"/> Fish		19. Additional Comments Along the length of this ditch the vegetation changed from being dominated by cattails, to trees and shrubs, to forbs/bare ground.		Datasheet entered by: KAS Last Revised: 08/19																																																																																																																																																																																																														

Stream Characterization **Date:** 8/29/2019 **Time:** 3:00pm **Site:** ORD **County:** Cook
Field ID: Stream/Ditch **Stream Name:** Ditch 12 **Investigators:** CBM, BJH

Weather in the past 24 hours: <input type="checkbox"/> Storm (heavy rain) <input type="checkbox"/> Overcast <input checked="" type="checkbox"/> Rain (steady rain) <input checked="" type="checkbox"/> Clear/Sunny <input type="checkbox"/> Showers (intermittent rain)		3. Circle flow regime: EPHEMERAL PERENNIAL <u>INTERMITTENT</u>		9. Water Appearance: <input checked="" type="checkbox"/> clear <input type="checkbox"/> milky <input type="checkbox"/> foamy <input type="checkbox"/> turbid <input type="checkbox"/> light brown <input type="checkbox"/> dark brown <input type="checkbox"/> oily sheen <input type="checkbox"/> orange <input type="checkbox"/> none <input type="checkbox"/> greenish <input type="checkbox"/> other:		10. Water Odor: <input type="checkbox"/> sewage <input type="checkbox"/> chlorine <input type="checkbox"/> fishy <input type="checkbox"/> rotten eggs <input type="checkbox"/> organic <input checked="" type="checkbox"/> other: none																																																																																																			
1. a) Approximate depth of water in stream: <input type="checkbox"/> N/A <input type="checkbox"/> 6"		4. Stream habitats present: <input type="checkbox"/> Pool(s) <input type="checkbox"/> Run(s) <input type="checkbox"/> Riffles(s) <input checked="" type="checkbox"/> N/A		11. Presence of logs or large woody debris in stream: <input checked="" type="checkbox"/> None <input type="checkbox"/> Occasional <input type="checkbox"/> Plentiful		12. Pick the category that best describes the extent to which vegetation shades the stream: <input type="checkbox"/> 0% <input checked="" type="checkbox"/> 50% <input type="checkbox"/> 100% <input type="checkbox"/> 25% <input type="checkbox"/> 75% <input type="checkbox"/> other - %																																																																																																			
b) Approximate width of water flow: <input type="checkbox"/> N/A <input type="checkbox"/> 20 ft		5. Stream Velocity: <input type="checkbox"/> fast <input type="checkbox"/> moderate <input checked="" type="checkbox"/> slow <input type="checkbox"/> N/A																																																																																																							
c) Approximate width of stream: (from top of bank to top of bank) <input type="checkbox"/> 30-35 ft		6. Nature of the particles in the stream bottom: <table border="1" style="width:100%; text-align: center;"> <tr> <td></td> <td>None</td> <td>Little</td> <td>Some</td> <td>Most</td> </tr> <tr> <td>silt/clay/mud</td> <td></td> <td></td> <td></td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td>sand</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>cobbles (2 - 10" diam.)</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>boulders (> 10" diam.)</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>bedrock</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>			None	Little	Some	Most	silt/clay/mud				<input checked="" type="checkbox"/>	sand					cobbles (2 - 10" diam.)					boulders (> 10" diam.)					bedrock					13. Pick the description that best fits the stream bank and the channel (facing upstream): a) Stream bank: <table border="1" style="width:100%; text-align: center;"> <tr> <td>Left</td> <td></td> <td>Right</td> </tr> <tr> <td></td> <td>Vertical/undercut</td> <td></td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td>Steeply sloping (>30°)</td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td></td> <td>Gradual/No slope (<30°)</td> <td></td> </tr> </table>		Left		Right		Vertical/undercut		<input checked="" type="checkbox"/>	Steeply sloping (>30°)	<input checked="" type="checkbox"/>		Gradual/No slope (<30°)																																																											
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d) Approximate height of banks (channel depth): left <input type="checkbox"/> 10 ft right <input type="checkbox"/> 10 ft		7. Presence of naturally occurring organic material in stream: <input type="checkbox"/> None <input type="checkbox"/> Occasional <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Plentiful		b) Shape of the channel: <input checked="" type="checkbox"/> Narrow, Deep <input type="checkbox"/> Wide, Deep <input type="checkbox"/> Narrow, Shallow <input type="checkbox"/> Wide, Shallow																																																																																																					
e) Approximate depth of pool(s): <input checked="" type="checkbox"/> N/A <input type="checkbox"/>		8. Facing upstream, does this stream have <u>tree</u> cover for 50 feet on the: left side <input type="checkbox"/> no right side <input type="checkbox"/> no What is the % cover of <u>trees</u> per side of the stream? left side <input type="checkbox"/> 0 % right side <input type="checkbox"/> 0 % Facing upstream, does this stream have <u>shrub</u> cover for 50 feet on the: left side <input type="checkbox"/> no right side <input type="checkbox"/> no What is the % cover of <u>shrubs</u> per side of the stream? 0 0 Observer initials:																																																																																																							
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19. Additional Comments Riprap around culvert entrances and exits; multiple side culverts																																																																																																									
Datasheet entered by: Last Revised: 09/25																																																																																																									

Stream Characterization **Date:** 7/19/2019 **Time:** **Site:** ORD TAP **County:** Cook
Field ID: Stream/Ditch **Stream Name:** Ditch 13 - section 1 **Investigators:** KAS BJH

Weather in the past 24 hours: <input type="checkbox"/> Storm (heavy rain) <input type="checkbox"/> Overcast <input checked="" type="checkbox"/> Rain (steady rain) <input checked="" type="checkbox"/> Clear/Sunny <input type="checkbox"/> Showers (intermittent rain)		3. Circle flow regime: EPHEMERAL PERENNIAL <u>INTERMITTENT</u>		9. Water Appearance: <input checked="" type="checkbox"/> clear <input type="checkbox"/> milky <input type="checkbox"/> foamy <input type="checkbox"/> turbid <input type="checkbox"/> light brown <input type="checkbox"/> dark brown <input checked="" type="checkbox"/> oily sheen <input type="checkbox"/> orange <input type="checkbox"/> none <input checked="" type="checkbox"/> greenish <input type="checkbox"/> none <input checked="" type="checkbox"/> other iron		10. Water Odor: <input type="checkbox"/> sewage <input type="checkbox"/> chlorine <input type="checkbox"/> fishy <input type="checkbox"/> rotten eggs <input type="checkbox"/> organic <input checked="" type="checkbox"/> other: none																																																																																																																																			
1. a) Approximate depth of water in stream: <input type="checkbox"/> N/A up to 6"		4. Stream habitats present: <input checked="" type="checkbox"/> Pool(s) <input type="checkbox"/> Run(s) <input type="checkbox"/> Riffles(s) <input type="checkbox"/> N/A		11. Presence of logs or large woody debris in stream: <input checked="" type="checkbox"/> None <input type="checkbox"/> Occasional <input type="checkbox"/> Plentiful																																																																																																																																					
b) Approximate width of water flow: <input type="checkbox"/> N/A 8 to 36"		5. Stream Velocity: <input type="checkbox"/> fast <input type="checkbox"/> moderate <input checked="" type="checkbox"/> slow <input type="checkbox"/> N/A																																																																																																																																							
c) Approximate width of stream: (from top of bank to top of bank) <input type="checkbox"/> N/A 2 - 6 ft		6. Nature of the particles in the stream bottom: <table border="1" style="width:100%; text-align: center;"> <tr> <th></th> <th>None</th> <th>Little</th> <th>Some</th> <th>Most</th> </tr> <tr> <td>silt/clay/mud</td> <td></td> <td></td> <td></td> <td>X</td> </tr> <tr> <td>sand</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>gravel</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>cobbles (2 - 10" diam.)</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>boulders (> 10" diam.)</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>bedrock</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>			None	Little	Some	Most	silt/clay/mud				X	sand					gravel					cobbles (2 - 10" diam.)					boulders (> 10" diam.)					bedrock					12. Pick the category that best describes the extent to which vegetation shades the stream: <input type="checkbox"/> 0% <input type="checkbox"/> 50% <input type="checkbox"/> 100% <input type="checkbox"/> 25% <input checked="" type="checkbox"/> 75% <input type="checkbox"/> other - %																																																																																																		
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d) Approximate height of banks (channel depth): left <input type="checkbox"/> 2 ft right <input type="checkbox"/> 2 ft		7. Presence of naturally occurring organic material in stream: <input type="checkbox"/> None <input checked="" type="checkbox"/> Occasional <input type="checkbox"/> Unknown <input type="checkbox"/> Plentiful																																																																																																																																							
e) Approximate depth of pool(s): <input type="checkbox"/> N/A up to 8"		8. Facing upstream, does this stream have <u>tree</u> cover for 50 feet on the: left side <input type="checkbox"/> no right side <input type="checkbox"/> no What is the % cover of <u>trees</u> per side of the stream? left side <input type="checkbox"/> % right side <input type="checkbox"/> % Facing upstream, does this stream have <u>shrub</u> cover for 50 feet on the: left side <input type="checkbox"/> no right side <input type="checkbox"/> no What is the % cover of <u>shrubs</u> per side of the stream? Observer initials: KS <input checked="" type="checkbox"/> KS		13. Pick the description that best fits the stream bank and the channel (facing upstream): a) Stream bank: <table border="1" style="width:100%;"> <tr> <th>Left</th> <th></th> <th>Right</th> </tr> <tr> <td></td> <td>Vertical/undercut</td> <td></td> </tr> <tr> <td></td> <td>Steeply sloping (>30°)</td> <td>X</td> </tr> <tr> <td>X</td> <td>Gradual/No slope (<30°)</td> <td></td> </tr> </table> b) Shape of the channel: <input type="checkbox"/> Narrow, Deep <input type="checkbox"/> Wide, Deep <input checked="" type="checkbox"/> Narrow, Shallow <input type="checkbox"/> Wide, Shallow		Left		Right		Vertical/undercut			Steeply sloping (>30°)	X	X	Gradual/No slope (<30°)																																																																																																																									
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2. Plant Species Adjacent to stream (scientific name): Trees: Understory: <i>Phragmites australis, Lythrum salicaria</i> <i>Alisma subcordatum, Sagittaria cuneata,</i> <i>Schoenoplectus tabernaemontani, RCG</i> <i>Juncus dudleyi, J. nodosus,</i> <i>Scirpus cyperinus, Polygonum spp.</i> <i>Typha angustifolia</i>		14. Describe the streamside cover. Check "P" if present, "C" if common a) Along the water's edge and stream bank only (facing upstream): <table border="1" style="width:100%;"> <tr> <th>Left</th> <th>P</th> <th>C</th> <th></th> <th>Right</th> <th>P</th> <th>C</th> </tr> <tr> <td></td> <td></td> <td></td> <td>Trees</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>Bushes, Shrubs</td> <td></td> <td></td> <td></td> </tr> <tr> <td>X</td> <td>X</td> <td></td> <td>Tall grasses, forbs</td> <td>X</td> <td>X</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>Lawn, maintained landscape</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>Boulders/Rocks/Rip Rap</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>Gravel/Sand</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>Bare Soil</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>Pavement, Structures, Gabions</td> <td></td> <td></td> <td></td> </tr> </table> b) From the top of the streambank out to 50 feet: <table border="1" style="width:100%;"> <tr> <th>Left</th> <th>P</th> <th>C</th> <th></th> <th>Right</th> <th>P</th> <th>C</th> </tr> <tr> <td></td> <td></td> <td></td> <td>Trees</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>Bushes, Shrubs</td> <td></td> <td></td> <td></td> </tr> <tr> <td>X</td> <td>X</td> <td></td> <td>Tall grasses, forbs</td> <td>X</td> <td>X</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>Lawn, maintained landscape</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>Boulders/Rocks</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>Gravel/Sand</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>Bare Soil</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>Pavement, Structures</td> <td></td> <td></td> <td></td> </tr> </table>				Left	P	C		Right	P	C				Trees							Bushes, Shrubs				X	X		Tall grasses, forbs	X	X					Lawn, maintained landscape							Boulders/Rocks/Rip Rap							Gravel/Sand							Bare Soil							Pavement, Structures, Gabions				Left	P	C		Right	P	C				Trees							Bushes, Shrubs				X	X		Tall grasses, forbs	X	X					Lawn, maintained landscape							Boulders/Rocks							Gravel/Sand							Bare Soil							Pavement, Structures									
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19. Additional Comments east side of ditch is stockpile from 80s and has water seeping into ditch at multiple locations; some with iron sheen dilemma as to whether to delineate as stream or wetland		Datasheet entered by: KAS Last Revised: 08/19																																																																																																																																							

[illegible]

Stream Characterization **Date:** 9/23/2019 **Time:** 8:30 AM **Site:** ORD **County:** Cook
Field ID: Stream Ditch **Stream Name:** Ditch 14 **Investigators:** CBM, BJH

Weather in the past 24 hours: <input checked="" type="checkbox"/> Storm (heavy rain) <input type="checkbox"/> Overcast <input type="checkbox"/> Rain (steady rain) <input type="checkbox"/> Clear/Sunny <input type="checkbox"/> Showers (intermittent rain)		3. Circle flow regime: <u>EPHEMERAL</u> PERENNIAL 4. Stream habitats present: <input type="checkbox"/> Pool(s) <input type="checkbox"/> Run(s) <input type="checkbox"/> Riffles(s) <input checked="" type="checkbox"/> N/A		9. Water Appearance: <input checked="" type="checkbox"/> clear <input type="checkbox"/> milky <input type="checkbox"/> foamy <input type="checkbox"/> turbid <input type="checkbox"/> light brown <input type="checkbox"/> dark brown <input type="checkbox"/> oily sheen <input type="checkbox"/> orange <input type="checkbox"/> none <input type="checkbox"/> greenish <input type="checkbox"/> other:		10. Water Odor: <input type="checkbox"/> sewage <input type="checkbox"/> chlorine <input type="checkbox"/> fishy <input type="checkbox"/> rotten eggs <input type="checkbox"/> organic <input checked="" type="checkbox"/> other: none																																																																																																														
1. a) Approximate depth of water in stream: <input type="checkbox"/> N/A <input type="checkbox"/> 4-6"		5. Stream Velocity: <input type="checkbox"/> fast <input checked="" type="checkbox"/> moderate <input type="checkbox"/> slow <input type="checkbox"/> N/A		11. Presence of logs or large woody debris in stream: <input checked="" type="checkbox"/> Occasional <input type="checkbox"/> Plentiful		12. Pick the category that best describes the extent to which vegetation shades the stream: <input type="checkbox"/> 0% <input type="checkbox"/> 50% <input type="checkbox"/> 100% <input type="checkbox"/> 25% <input checked="" type="checkbox"/> 75% <input type="checkbox"/> other - %																																																																																																														
b) Approximate width of water flow: <input type="checkbox"/> N/A <input type="checkbox"/> 10 ft		6. Nature of the particles in the stream bottom: <table border="1" style="width:100%; text-align: center;"> <tr> <td></td> <td>None</td> <td>Little</td> <td>Some</td> <td>Most</td> </tr> <tr> <td>silt/clay/mud</td> <td></td> <td></td> <td><input checked="" type="checkbox"/></td> <td></td> </tr> <tr> <td>sand</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>gravel</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>cobbles (2 - 10" diam.)</td> <td></td> <td></td> <td><input checked="" type="checkbox"/></td> <td></td> </tr> <tr> <td>boulders (> 10" diam.)</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>bedrock</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>							None	Little	Some	Most	silt/clay/mud			<input checked="" type="checkbox"/>		sand					gravel					cobbles (2 - 10" diam.)			<input checked="" type="checkbox"/>		boulders (> 10" diam.)					bedrock																																																																														
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c) Approximate width of stream: (from top of bank to top of bank) <input type="checkbox"/> 15 ft <input type="checkbox"/> 15 ft		7. Presence of naturally occurring organic material in stream: <input checked="" type="checkbox"/> None <input type="checkbox"/> Occasional <input type="checkbox"/> Unknown <input type="checkbox"/> Plentiful		13. Pick the description that best fits the stream bank and the channel (facing upstream): a) Stream bank: <table border="1" style="width:100%; text-align: center;"> <tr> <td>Left</td> <td></td> <td>Right</td> </tr> <tr> <td></td> <td>Vertical/undercut</td> <td></td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td>Steeply sloping (>30°)</td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td></td> <td>Gradual/No slope (<30°)</td> <td></td> </tr> </table> b) Shape of the channel: <input type="checkbox"/> Narrow, Deep <input type="checkbox"/> Wide, Deep <input checked="" type="checkbox"/> Narrow, Shallow <input type="checkbox"/> Wide, Shallow		Left		Right		Vertical/undercut		<input checked="" type="checkbox"/>	Steeply sloping (>30°)	<input checked="" type="checkbox"/>		Gradual/No slope (<30°)																																																																																																				
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2. Plant Species Adjacent to stream (scientific name): Trees: <i>Rhamnus cathartica</i> , <i>Salix sp.</i> <i>Populus deltoides</i> Understory: <i>Solidago sempervirens</i> , <i>Dipsacus laciniatus</i> , <i>Phragmites australis</i> , <i>Typha angustifolia</i>		8. Facing upstream, does this stream have <u>tree</u> cover for 50 feet on the: left side <input checked="" type="checkbox"/> yes right side <input checked="" type="checkbox"/> yes What is the % cover of <u>trees</u> per side of the stream? left side <input type="checkbox"/> 30 % right side <input type="checkbox"/> 80 %		14. Describe the streamside cover. Check "P" if present, "C" if common a) Along the water's edge and stream bank only (facing upstream): <table border="1" style="width:100%; text-align: center;"> <tr> <td colspan="2">Left</td> <td></td> <td colspan="2">Right</td> </tr> <tr> <td>P</td> <td>C</td> <td></td> <td>P</td> <td>C</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Trees</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Bushes, Shrubs</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Tall grasses, forbs</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Lawn, maintained landscape</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Boulders/Rocks/Rip Rap</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Gravel/Sand</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Bare Soil</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Pavement, Structures, Gabions</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </table> b) From the top of the streambank out to 50 feet: <table border="1" style="width:100%; 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17. Waters Type <table border="1" style="width:100%; text-align: center;"> <tr> <td><input type="checkbox"/></td> <td>DELINEATE</td> <td><input type="checkbox"/></td> <td>RPWNN</td> </tr> <tr> <td><input type="checkbox"/></td> <td>TNW</td> <td><input type="checkbox"/></td> <td>NRPW</td> </tr> <tr> <td><input type="checkbox"/></td> <td>TNWW</td> <td><input type="checkbox"/></td> <td>NRPWW</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td>RPW</td> <td><input type="checkbox"/></td> <td>ISOLATE</td> </tr> <tr> <td><input type="checkbox"/></td> <td>RPWWD</td> <td><input type="checkbox"/></td> <td>UPLAND</td> </tr> <tr> <td><input type="checkbox"/></td> <td></td> <td><input type="checkbox"/></td> <td>TNWRPW</td> </tr> </table>		<input type="checkbox"/>	DELINEATE	<input type="checkbox"/>	RPWNN	<input type="checkbox"/>	TNW	<input type="checkbox"/>	NRPW	<input type="checkbox"/>	TNWW	<input type="checkbox"/>	NRPWW	<input checked="" type="checkbox"/>	RPW	<input type="checkbox"/>	ISOLATE	<input type="checkbox"/>	RPWWD	<input type="checkbox"/>	UPLAND	<input type="checkbox"/>		<input type="checkbox"/>	TNWRPW	18. Observed Fauna (make note of wildlife deterrents such as bird wires) List <input checked="" type="checkbox"/> Invertebrates <u>dragonflies, butterflies</u> <input type="checkbox"/> Birds <input type="checkbox"/> Mammals <input type="checkbox"/> Reptile/Amphians <input type="checkbox"/> Fish																																																																																										
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19. Additional Comments heavy rain night before; flowing water 24" pipe drains into ditch; large box culvert at north end. Drains under Mannheim Rd to the east.																																																																																																																				
Datasheet entered by:		Last Revised: 09/25																																																																																																																		

Stream Characterization **Date:** 9/23/2019 **Time:** 8:55am **Site:** ORD **County:** Cook
Field ID: Stream/Ditch **Stream Name:** Ditch 15 **Investigators:** CBM, BJH

Weather in the past 24 hours: <input checked="" type="checkbox"/> Storm (heavy rain) <input type="checkbox"/> Overcast <input type="checkbox"/> Rain (steady rain) <input type="checkbox"/> Clear/Sunny <input type="checkbox"/> Showers (intermittent rain)		3. Circle flow regime: <u>EPHEMERAL</u> PERENNIAL 4. Stream habitats present: <input type="checkbox"/> Pool(s) <input type="checkbox"/> Run(s) <input type="checkbox"/> Riffles(s) <input checked="" type="checkbox"/> N/A		9. Water Appearance: <input type="checkbox"/> clear <input type="checkbox"/> milky <input type="checkbox"/> foamy <input checked="" type="checkbox"/> turbid <input type="checkbox"/> light brown <input type="checkbox"/> dark brown <input type="checkbox"/> oily sheen <input type="checkbox"/> orange <input type="checkbox"/> none <input type="checkbox"/> greenish <input type="checkbox"/> other:		10. Water Odor: <input type="checkbox"/> sewage <input type="checkbox"/> chlorine <input type="checkbox"/> fishy <input type="checkbox"/> rotten eggs <input type="checkbox"/> organic <input checked="" type="checkbox"/> other: none																																																																
1. a) Approximate depth of water in stream: <input type="checkbox"/> N/A <input type="checkbox"/> 10"		5. Stream Velocity: <input type="checkbox"/> fast <input type="checkbox"/> moderate <input type="checkbox"/> slow <input checked="" type="checkbox"/> N/A		11. Presence of logs or large woody debris in stream: <input checked="" type="checkbox"/> None <input type="checkbox"/> Occasional <input type="checkbox"/> Plentiful																																																																		
b) Approximate width of water flow: <input type="checkbox"/> N/A <input type="checkbox"/> 10 ft		6. Nature of the particles in the stream bottom: <table border="1" style="width:100%; text-align: center;"> <tr> <th></th> <th>None</th> <th>Little</th> <th>Some</th> <th>Most</th> </tr> <tr> <td>silt/clay/mud</td> <td></td> <td></td> <td></td> <td>X</td> </tr> <tr> <td>sand</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>gravel</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>cobbles (2 - 10" diam.)</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>boulders (> 10" diam.)</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>bedrock</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>					None	Little	Some	Most	silt/clay/mud				X	sand					gravel					cobbles (2 - 10" diam.)					boulders (> 10" diam.)					bedrock																																		
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bedrock																																																																						
c) Approximate width of stream: (from top of bank to top of bank) <input type="checkbox"/> 40 ft		7. Presence of naturally occurring organic material in stream: <input type="checkbox"/> None <input type="checkbox"/> Occasional <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Plentiful		12. Pick the category that best describes the extent to which vegetation shades the stream: <input checked="" type="checkbox"/> 0% <input type="checkbox"/> 50% <input type="checkbox"/> 100% <input type="checkbox"/> 25% <input type="checkbox"/> 75% <input type="checkbox"/> other - %																																																																		
d) Approximate height of banks (channel depth): left <input type="checkbox"/> 10 ft right <input type="checkbox"/> 12 ft		8. Facing upstream, does this stream have <u>tree</u> cover for 50 feet on the: left side <input type="checkbox"/> no right side <input type="checkbox"/> no What is the % cover of <u>trees</u> per side of the stream? left side <input type="checkbox"/> 0 % right side <input type="checkbox"/> 0 %																																																																				
e) Approximate depth of pool(s): <input checked="" type="checkbox"/> N/A		Facing upstream, does this stream have <u>shrub</u> cover for 50 feet on the: left side <input type="checkbox"/> no right side <input type="checkbox"/> no What is the % cover of <u>shrubs</u> per side of the stream? Observer initials:		13. Pick the description that best fits the stream bank and the channel (facing upstream): a) Stream bank: <table border="1" style="width:100%;"> <tr> <th>Left</th> <th></th> <th>Right</th> </tr> <tr> <td></td> <td>Vertical/undercut</td> <td></td> </tr> <tr> <td>X</td> <td>Steeply sloping (>30°)</td> <td>X</td> </tr> <tr> <td></td> <td>Gradual/No slope (<30°)</td> <td></td> </tr> </table> b) Shape of the channel: <table border="1" style="width:100%;"> <tr> <td></td> <td>Narrow, Deep</td> <td>Wide, Deep</td> </tr> <tr> <td>X</td> <td>Narrow, Shallow</td> <td>Wide, Shallow</td> </tr> </table>		Left		Right		Vertical/undercut		X	Steeply sloping (>30°)	X		Gradual/No slope (<30°)			Narrow, Deep	Wide, Deep	X	Narrow, Shallow	Wide, Shallow																																															
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14. Describe the streamside cover. Check "P" if present, "C" if common a) Along the water's edge and stream bank only (facing upstream): <table border="1" style="width:100%;"> <tr> <th colspan="2">Left</th> <th></th> <th colspan="2">Right</th> </tr> <tr> <th>P</th> <th>C</th> <th></th> <th>P</th> <th>C</th> </tr> <tr> <td></td> <td></td> <td>Trees</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>Bushes, Shrubs</td> <td></td> <td></td> </tr> <tr> <td>X</td> <td>X</td> <td>Tall grasses, forbs</td> <td>X</td> <td>X</td> </tr> <tr> <td>X</td> <td>X</td> <td>Lawn, maintained landscape</td> <td>X</td> <td>X</td> </tr> <tr> <td></td> <td></td> <td>Boulders/Rocks/Rip Rap</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>Gravel/Sand</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>Bare Soil</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>Pavement, Structures, Gabions</td> <td></td> <td></td> </tr> </table>						Left			Right		P	C		P	C			Trees					Bushes, Shrubs			X	X	Tall grasses, forbs	X	X	X	X	Lawn, maintained landscape	X	X			Boulders/Rocks/Rip Rap					Gravel/Sand					Bare Soil					Pavement, Structures, Gabions																	
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b) From the top of the streambank out to 50 feet: <table border="1" style="width:100%;"> <tr> <th colspan="2">Left</th> <th></th> <th colspan="2">Right</th> </tr> <tr> <th>P</th> <th>C</th> <th></th> <th>P</th> <th>C</th> </tr> <tr> <td></td> <td></td> <td>Trees</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>Bushes, Shrubs</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>Tall grasses, forbs</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>Lawn, maintained landscape</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>Boulders/Rocks</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>Gravel/Sand</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>Bare Soil</td> <td></td> <td></td> </tr> <tr> <td>X</td> <td>X</td> <td>Pavement, Structures</td> <td>X</td> <td>X</td> </tr> </table>						Left			Right		P	C		P	C			Trees					Bushes, Shrubs					Tall grasses, forbs					Lawn, maintained landscape					Boulders/Rocks					Gravel/Sand					Bare Soil			X	X	Pavement, Structures	X	X															
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15. In the vicinity of the stream, Check "P" if present, "C" if common: <table border="1" style="width:100%;"> <tr> <th colspan="2">Left</th> <th></th> <th colspan="2">Right</th> </tr> <tr> <th>P</th> <th>C</th> <th></th> <th>P</th> <th>C</th> </tr> <tr> <td></td> <td></td> <td>Natural Streamside plant cover degraded</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>Banks collapsed/eroded</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>Garbage/junk adjacent to the stream</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>Foam or sheen on bank</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>Mud, silt, or sand in or entering the stream</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>Garbage/junk in the stream</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>Yard waste on bank (clippings, leaves, etc.)</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>Livestock in or with unrestricted access</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>Actively discharging pipes</td> <td>X</td> <td></td> </tr> <tr> <td></td> <td></td> <td>Other pipes</td> <td>X</td> <td></td> </tr> <tr> <td></td> <td></td> <td>Ditches entering stream</td> <td></td> <td></td> </tr> </table>						Left			Right		P	C		P	C			Natural Streamside plant cover degraded					Banks collapsed/eroded					Garbage/junk adjacent to the stream					Foam or sheen on bank					Mud, silt, or sand in or entering the stream					Garbage/junk in the stream					Yard waste on bank (clippings, leaves, etc.)					Livestock in or with unrestricted access					Actively discharging pipes	X				Other pipes	X				Ditches entering stream		
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16. Ordinary High Water Mark Determination Check "P" if observed; Check "U" if used to determine OHWM <table border="1" style="width:100%;"> <tr> <th>P</th> <th>U</th> <th></th> </tr> <tr> <td></td> <td></td> <td>Natural line impressed on the bank</td> </tr> <tr> <td></td> <td></td> <td>Shelving</td> </tr> <tr> <td></td> <td></td> <td>Changes in the character of soil</td> </tr> <tr> <td></td> <td></td> <td>Destruction of terrestrial vegetation</td> </tr> <tr> <td></td> <td></td> <td>Presence of litter and debris</td> </tr> <tr> <td></td> <td></td> <td>Wracking</td> </tr> <tr> <td></td> <td></td> <td>Vegetation matted down; bent, or absent</td> </tr> <tr> <td></td> <td></td> <td>Sediment sorting</td> </tr> <tr> <td></td> <td></td> <td>Leaf litter disturbed or washed away</td> </tr> <tr> <td></td> <td></td> <td>Scour</td> </tr> <tr> <td></td> <td></td> <td>Deposition</td> </tr> <tr> <td></td> <td></td> <td>Multiple observed flow events</td> </tr> <tr> <td></td> <td></td> <td>Bed and banks</td> </tr> <tr> <td></td> <td></td> <td>Water staining</td> </tr> <tr> <td>X</td> <td>X</td> <td>Change in plant community</td> </tr> </table>						P	U				Natural line impressed on the bank			Shelving			Changes in the character of soil			Destruction of terrestrial vegetation			Presence of litter and debris			Wracking			Vegetation matted down; bent, or absent			Sediment sorting			Leaf litter disturbed or washed away			Scour			Deposition			Multiple observed flow events			Bed and banks			Water staining	X	X	Change in plant community																	
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19. Additional Comments heavy rainstorm; 12" culvert near south end banks mown periodically																																																																						
Datasheet entered by:				Last Revised: 09/25																																																																		

Stream Characterization **Date:** 9/25/2019 **Time:** 9:45am **Site:** ORD **County:** Cook
Field ID: Stream/Ditch **Stream Name:** Ditch 16 **Investigators:** CBM, BJH

Weather in the past 24 hours: <input type="checkbox"/> Storm (heavy rain) <input type="checkbox"/> Overcast <input checked="" type="checkbox"/> Rain (steady rain) <input checked="" type="checkbox"/> Clear/Sunny <input type="checkbox"/> Showers (intermittent rain)		3. Circle flow regime: <u>EPHEMERAL</u> PERENNIAL <input checked="" type="checkbox"/> <u>INTERMITTENT</u>		9. Water Appearance: <input checked="" type="checkbox"/> clear <input type="checkbox"/> milky <input type="checkbox"/> foamy <input type="checkbox"/> turbid <input type="checkbox"/> light brown <input type="checkbox"/> dark brown <input type="checkbox"/> oily sheen <input type="checkbox"/> orange <input type="checkbox"/> none <input type="checkbox"/> greenish <input type="checkbox"/> other:		10. Water Odor: <input type="checkbox"/> sewage <input type="checkbox"/> chlorine <input type="checkbox"/> fishy <input type="checkbox"/> rotten eggs <input type="checkbox"/> organic <input checked="" type="checkbox"/> other: none																																																																																															
1. a) Approximate depth of water in stream: <input type="checkbox"/> N/A <input type="checkbox"/> 3" to 1ft b) Approximate width of water flow: <input type="checkbox"/> N/A <input type="checkbox"/> 3-12 ft c) Approximate width of stream: (from top of bank to top of bank) <input type="checkbox"/> 40 ft d) Approximate height of banks (channel depth): left <input type="checkbox"/> 10 ft right <input type="checkbox"/> 10 ft e) Approximate depth of pool(s): <input checked="" type="checkbox"/> N/A <input type="checkbox"/>		4. Stream habitats present: <input type="checkbox"/> Pool(s) <input type="checkbox"/> Run(s) <input type="checkbox"/> Riffles(s) <input checked="" type="checkbox"/> N/A 5. Stream Velocity: <input type="checkbox"/> fast <input type="checkbox"/> moderate <input type="checkbox"/> slow <input checked="" type="checkbox"/> N/A 6. Nature of the particles in the stream bottom: <table border="1" style="width:100%; text-align: center;"> <tr> <th></th> <th>None</th> <th>Little</th> <th>Some</th> <th>Most</th> </tr> <tr> <td>silt/clay/mud</td> <td></td> <td></td> <td></td> <td>X</td> </tr> <tr> <td>sand</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>gravel</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>cobbles (2 - 10" diam.)</td> <td></td> <td></td> <td>X</td> <td></td> </tr> <tr> <td>boulders (> 10" diam.)</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>bedrock</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>			None	Little	Some	Most	silt/clay/mud				X	sand					gravel					cobbles (2 - 10" diam.)			X		boulders (> 10" diam.)					bedrock					11. Presence of logs or large woody debris in stream: <input checked="" type="checkbox"/> None <input type="checkbox"/> Occasional <input type="checkbox"/> Plentiful 12. Pick the category that best describes the extent to which vegetation shades the stream: <input type="checkbox"/> 0% <input type="checkbox"/> 50% <input checked="" type="checkbox"/> 100% <input type="checkbox"/> 25% <input type="checkbox"/> 75% <input type="checkbox"/> other - %																																																														
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2. Plant Species Adjacent to stream (scientific name): Trees: Understory: <i>Phragmites australis, Solidago sempervirens</i>		8. Facing upstream, does this stream have <u>tree</u> cover for 50 feet on the: left side <input type="checkbox"/> no right side <input type="checkbox"/> no What is the % cover of <u>trees</u> per side of the stream? left side <input type="checkbox"/> 0 % right side <input type="checkbox"/> 0 % Facing upstream, does this stream have <u>shrub</u> cover for 50 feet on the: left side <input type="checkbox"/> no right side <input type="checkbox"/> no What is the % cover of <u>shrubs</u> per side of the stream? Observer initials:		13. Pick the description that best fits the stream bank and the channel (facing upstream): a) Stream bank: <table border="1" style="width:100%; text-align: center;"> <tr> <th>Left</th> <th></th> <th>Right</th> </tr> <tr> <td></td> <td>Vertical/undercut</td> <td></td> </tr> <tr> <td></td> <td>Steeply sloping (>30°)</td> <td>X</td> </tr> <tr> <td>X</td> <td>Gradual/No slope (<30°)</td> <td></td> </tr> </table> b) Shape of the channel: <input type="checkbox"/> Narrow, Deep <input type="checkbox"/> Wide, Deep <input checked="" type="checkbox"/> Narrow, Shallow <input type="checkbox"/> Wide, Shallow		Left		Right		Vertical/undercut			Steeply sloping (>30°)	X	X	Gradual/No slope (<30°)																																																																																					
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Stream Characterization **Date:** 9/25/2019 **Time:** 8:30am **Site:** ORD **County:** Cook
Field ID: Stream/Ditch **Stream Name:** Ditch 17 **Investigators:** CBM, BJH

Weather in the past 24 hours: <input type="checkbox"/> Storm (heavy rain) <input type="checkbox"/> Overcast <input checked="" type="checkbox"/> Rain (steady rain) <input checked="" type="checkbox"/> Clear/Sunny <input type="checkbox"/> Showers (intermittent rain)		3. Circle flow regime: <u>EPHEMERAL</u> PERENNIAL <input checked="" type="checkbox"/> INTERMITTENT		9. Water Appearance: <input type="checkbox"/> clear <input type="checkbox"/> milky <input type="checkbox"/> foamy <input type="checkbox"/> turbid <input type="checkbox"/> light brown <input checked="" type="checkbox"/> dark brown <input type="checkbox"/> oily sheen <input type="checkbox"/> orange <input type="checkbox"/> greenish <input type="checkbox"/> other:		10. Water Odor: <input type="checkbox"/> sewage <input type="checkbox"/> chlorine <input type="checkbox"/> fishy <input type="checkbox"/> rotten eggs <input type="checkbox"/> organic <input checked="" type="checkbox"/> other: none																																																																																																																																																																		
1. a) Approximate depth of water in stream: <input type="checkbox"/> N/A 1 ft		4. Stream habitats present: <input type="checkbox"/> Pool(s) <input type="checkbox"/> Run(s) <input type="checkbox"/> Riffles(s) <input checked="" type="checkbox"/> N/A		11. Presence of logs or large woody debris in stream: <input checked="" type="checkbox"/> None <input type="checkbox"/> Occasional <input type="checkbox"/> Plentiful																																																																																																																																																																				
b) Approximate width of water flow: <input type="checkbox"/> N/A 10 ft		5. Stream Velocity: <input type="checkbox"/> fast <input type="checkbox"/> moderate <input type="checkbox"/> slow <input checked="" type="checkbox"/> N/A		12. Pick the category that best describes the extent to which vegetation shades the stream: <input type="checkbox"/> 0% <input type="checkbox"/> 50% <input checked="" type="checkbox"/> 100% <input type="checkbox"/> 25% <input type="checkbox"/> 75% <input type="checkbox"/> other - %																																																																																																																																																																				
c) Approximate width of stream: (from top of bank to top of bank) left: 8 ft right: 20 ft		6. Nature of the particles in the stream bottom: <table border="1" style="width:100%; text-align: center;"> <tr> <th></th> <th>None</th> <th>Little</th> <th>Some</th> <th>Most</th> </tr> <tr> <td>silt/clay/mud</td> <td></td> <td></td> <td></td> <td>X</td> </tr> <tr> <td>sand</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>gravel</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>cobbles (2 - 10" diam.)</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>boulders (> 10" diam.)</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>bedrock</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>			None	Little	Some	Most	silt/clay/mud				X	sand					gravel					cobbles (2 - 10" diam.)					boulders (> 10" diam.)					bedrock					13. Pick the description that best fits the stream bank and the channel (facing upstream): <table border="1" style="width:100%;"> <tr> <th colspan="2">a) Stream bank:</th> <th></th> </tr> <tr> <td>Left</td> <td>Right</td> <td></td> </tr> <tr> <td></td> <td>Vertical/undercut</td> <td></td> </tr> <tr> <td></td> <td>Steeply sloping (>30°)</td> <td>X</td> </tr> <tr> <td></td> <td>Gradual/No slope (<30°)</td> <td></td> </tr> </table>		a) Stream bank:			Left	Right			Vertical/undercut			Steeply sloping (>30°)	X		Gradual/No slope (<30°)																																																																																																																		
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e) Approximate depth of pool(s): <input checked="" type="checkbox"/> N/A		8. Facing upstream, does this stream have <u>tree</u> cover for 50 feet on the: left side: no right side: no What is the % cover of <u>trees</u> per side of the stream? left side: 0 % right side: 0 %		14. Describe the streamside cover. Check "P" if present, "C" if common a) Along the water's edge and stream bank only (facing upstream): <table border="1" style="width:100%;"> <tr> <th colspan="2">Left</th> <th></th> <th colspan="2">Right</th> </tr> <tr> <th>P</th> <th>C</th> <th></th> <th>P</th> <th>C</th> </tr> <tr> <td></td> <td></td> <td>Trees</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>Bushes, Shrubs</td> <td></td> <td></td> </tr> <tr> <td>X</td> <td>X</td> <td>Tall grasses, forbs</td> <td>X</td> <td>X</td> </tr> <tr> <td></td> <td></td> <td>Lawn, maintained landscape</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>Boulders/Rocks/Rip Rap</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>Gravel/Sand</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>Bare Soil</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>Pavement, Structures, Gabions</td> <td></td> <td></td> </tr> </table>		Left			Right		P	C		P	C			Trees					Bushes, Shrubs			X	X	Tall grasses, forbs	X	X			Lawn, maintained landscape					Boulders/Rocks/Rip Rap					Gravel/Sand					Bare Soil					Pavement, Structures, Gabions																																																																																																																			
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19. Additional Comments Return road and stockpile; Phragmites filled culverts present; 30" at south end flows into ditch, 2 12" culverts drain into feature																																																																																																																																																																								
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Stream Characterization **Date:** 9/25/2019 **Time:** 8:00am **Site:** ORD **County:** Cook
Field ID: Stream/Ditch **Stream Name:** Ditch 18 **Investigators:** CBM, BJH

Weather in the past 24 hours: <input type="checkbox"/> Storm (heavy rain) <input type="checkbox"/> Overcast <input checked="" type="checkbox"/> Rain (steady rain) <input checked="" type="checkbox"/> Clear/Sunny <input type="checkbox"/> Showers (intermittent rain)		3. Circle flow regime: EPHEMERAL <u>PERENNIAL</u> 4. Stream habitats present: <input type="checkbox"/> Pool(s) <input type="checkbox"/> Run(s) <input checked="" type="checkbox"/> Riffles(s) <input type="checkbox"/> N/A		9. Water Appearance: <input checked="" type="checkbox"/> clear <input type="checkbox"/> milky <input type="checkbox"/> foamy <input type="checkbox"/> turbid <input type="checkbox"/> light brown <input type="checkbox"/> dark brown <input type="checkbox"/> oily sheen <input type="checkbox"/> orange <input type="checkbox"/> none <input type="checkbox"/> greenish <input type="checkbox"/> other:		10. Water Odor: <input type="checkbox"/> sewage <input type="checkbox"/> chlorine <input type="checkbox"/> fishy <input type="checkbox"/> rotten eggs <input type="checkbox"/> organic <input checked="" type="checkbox"/> other: none																																																																																															
1. a) Approximate depth of water in stream: <input type="checkbox"/> N/A 1-4 ft b) Approximate width of water flow: <input type="checkbox"/> N/A 15 ft c) Approximate width of stream: (from top of bank to top of bank) 20-25 ft d) Approximate height of banks (channel depth): left 10 ft right 2-5 ft e) Approximate depth of pool(s): <input checked="" type="checkbox"/> N/A <input type="checkbox"/>		5. Stream Velocity: <input type="checkbox"/> fast <input type="checkbox"/> moderate <input type="checkbox"/> slow <input type="checkbox"/> N/A 6. Nature of the particles in the stream bottom: <table border="1" style="width:100%; text-align: center;"> <tr> <th></th> <th>None</th> <th>Little</th> <th>Some</th> <th>Most</th> </tr> <tr> <td>silt/clay/mud</td> <td></td> <td></td> <td></td> <td>X</td> </tr> <tr> <td>sand</td> <td></td> <td></td> <td>X</td> <td></td> </tr> <tr> <td>gravel</td> <td></td> <td></td> <td>X</td> <td></td> </tr> <tr> <td>cobbles (2 - 10" diam.)</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>boulders (> 10" diam.)</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>bedrock</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>			None	Little	Some	Most	silt/clay/mud				X	sand			X		gravel			X		cobbles (2 - 10" diam.)					boulders (> 10" diam.)					bedrock					11. Presence of logs or large woody debris in stream: <input checked="" type="checkbox"/> None <input type="checkbox"/> Occasional <input type="checkbox"/> Plentiful 12. Pick the category that best describes the extent to which vegetation shades the stream: <input type="checkbox"/> 0% <input type="checkbox"/> 50% <input type="checkbox"/> 100% <input type="checkbox"/> 25% <input checked="" type="checkbox"/> 75% <input type="checkbox"/> other - %																																																														
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2. Plant Species Adjacent to stream (scientific name): Trees: <i>Populus deltoides</i> , <i>Ulmus pumila</i> , <i>Rhamnus cathartica</i> Understory: <i>Symphytotrichum novae-angliae</i> <i>Solidago sempervires</i> , <i>Vitis riparia</i> , <i>Phalaris arundinacea</i> , <i>Cirsium arvense</i>		8. Facing upstream, does this stream have <u>tree</u> cover for 50 feet on the: left side <u>yes</u> right side <u>yes</u> What is the % cover of <u>trees</u> per side of the stream? left side <u>30</u> % right side <u>10</u> % Facing upstream, does this stream have <u>shrub</u> cover for 50 feet on the: left side <u>yes</u> right side <u>yes</u> What is the % cover of <u>shrubs</u> per side of the stream? 90 50 Observer initials:		13. Pick the description that best fits the stream bank and the channel (facing upstream): a) Stream bank: <table border="1" style="width:100%; text-align: center;"> <tr> <th>Left</th> <th></th> <th>Right</th> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td>Vertical/undercut</td> <td></td> </tr> <tr> <td></td> <td>Steeply sloping (>30°)</td> <td>X</td> </tr> <tr> <td></td> <td>Gradual/No slope (<30°)</td> <td></td> </tr> </table> b) Shape of the channel: <input type="checkbox"/> Narrow, Deep <input type="checkbox"/> Wide, Deep <input checked="" type="checkbox"/> Narrow, Shallow <input type="checkbox"/> Wide, Shallow		Left		Right	<input checked="" type="checkbox"/>	Vertical/undercut			Steeply sloping (>30°)	X		Gradual/No slope (<30°)																																																																																					
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19. Additional Comments flows east, connects to ditch 13 on west side east of Mannheim Rd via large box culvert		Datasheet entered by: Last Revised: 09/25																																																																																																			

Stream Characterization **Date:** 9/18/2019 **Time:** 10:15 AM **Site:** ORD **County:** Cook
Field ID: Stream/Ditch **Stream Name:** Ditch 19 **Investigators:** CBM, BJH

Weather in the past 24 hours: <input type="checkbox"/> Storm (heavy rain) <input type="checkbox"/> Overcast <input checked="" type="checkbox"/> Rain (steady rain) <input checked="" type="checkbox"/> Clear/Sunny <input type="checkbox"/> Showers (intermittent rain)		3. Circle flow regime: <u>EPHEMERAL</u> PERENNIAL INTERMITTENT		9. Water Appearance: <input type="checkbox"/> clear <input type="checkbox"/> milky <input type="checkbox"/> foamy <input type="checkbox"/> turbid <input type="checkbox"/> light brown <input type="checkbox"/> dark brown <input type="checkbox"/> oily sheen <input type="checkbox"/> orange <input type="checkbox"/> none <input type="checkbox"/> greenish <input checked="" type="checkbox"/> X <input type="checkbox"/> other:		10. Water Odor: <input type="checkbox"/> sewage <input type="checkbox"/> chlorine <input type="checkbox"/> fishy <input type="checkbox"/> rotten eggs <input type="checkbox"/> organic <input checked="" type="checkbox"/> other: none																																																																																																																											
1. a) Approximate depth of water in stream: <input checked="" type="checkbox"/> N/A		4. Stream habitats present: <input type="checkbox"/> Pool(s) <input type="checkbox"/> Run(s) <input type="checkbox"/> Riffles(s) <input checked="" type="checkbox"/> N/A		11. Presence of logs or large woody debris in stream: <input type="checkbox"/> None <input type="checkbox"/> Occasional <input checked="" type="checkbox"/> Plentiful																																																																																																																													
b) Approximate width of water flow: <input type="checkbox"/> N/A 6 ft		5. Stream Velocity: <input type="checkbox"/> fast <input type="checkbox"/> moderate <input type="checkbox"/> slow <input checked="" type="checkbox"/> N/A																																																																																																																															
c) Approximate width of stream: (from top of bank to top of bank) 12 ft		6. Nature of the particles in the stream bottom: <table border="1" style="width:100%; text-align: center;"> <tr> <th></th> <th>None</th> <th>Little</th> <th>Some</th> <th>Most</th> </tr> <tr> <td>silt/clay/mud</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>sand</td> <td></td> <td>X</td> <td></td> <td></td> </tr> <tr> <td>gravel</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>cobbles (2 - 10" diam.)</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>boulders (> 10" diam.)</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>bedrock</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>			None	Little	Some	Most	silt/clay/mud					sand		X			gravel					cobbles (2 - 10" diam.)					boulders (> 10" diam.)					bedrock					12. Pick the category that best describes the extent to which vegetation shades the stream: <input type="checkbox"/> 0% <input type="checkbox"/> 50% <input checked="" type="checkbox"/> 100% <input type="checkbox"/> 25% <input type="checkbox"/> 75% <input type="checkbox"/> other - %																																																																																										
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e) Approximate depth of pool(s): <input checked="" type="checkbox"/> N/A		8. Facing upstream, does this stream have <u>tree</u> cover for 50 feet on the: left side <u>yes</u> right side <u>yes</u> What is the % cover of <u>trees</u> per side of the stream? left side <u>100</u> % right side <u>100</u> %		13. Pick the description that best fits the stream bank and the channel (facing upstream): a) Stream bank: <table border="1" style="width:100%;"> <tr> <th>Left</th> <th></th> <th>Right</th> </tr> <tr> <td></td> <td>Vertical/undercut</td> <td></td> </tr> <tr> <td>X</td> <td>Steeply sloping (>30°)</td> <td>X</td> </tr> <tr> <td></td> <td>Gradual/No slope (<30°)</td> <td></td> </tr> </table> b) Shape of the channel: <input checked="" type="checkbox"/> Narrow, Deep <input type="checkbox"/> Wide, Deep <input type="checkbox"/> Narrow, Shallow <input type="checkbox"/> Wide, Shallow		Left		Right		Vertical/undercut		X	Steeply sloping (>30°)	X		Gradual/No slope (<30°)																																																																																																																	
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19. Additional Comments Short, deep ditch cut into hillside entering Willow Creek.		Datasheet entered by: Last Revised: 09/25																																																																																																																															

Stream Characterization **Date:** 9/17/2019 **Time:** 1:20 PM **Site:** ORD **County:** Cook
Field ID: Stream Ditch **Stream Name:** Ditch 20 **Investigators:** CBM, BJH

<p>Weather in the past 24 hours:</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td><input type="checkbox"/> Storm (heavy rain)</td> <td><input type="checkbox"/> Overcast</td> </tr> <tr> <td><input checked="" type="checkbox"/> Rain (steady rain)</td> <td><input checked="" type="checkbox"/> Clear/Sunny</td> </tr> <tr> <td><input type="checkbox"/> Showers (intermittent rain)</td> <td></td> </tr> </table> <p>1. a) Approximate depth of water in stream: <input checked="" type="checkbox"/> N/A</p> <p>b) Approximate width of water flow: <input checked="" type="checkbox"/> N/A</p> <p>c) Approximate width of stream: (from top of bank to top of bank) 6 ft</p> <p>d) Approximate height of banks (channel depth): left 2 ft right 2 ft</p> <p>e) Approximate depth of pool(s): <input checked="" type="checkbox"/> N/A</p> <p>2. Plant Species Adjacent to stream (scientific name):</p> <p>Trees: <i>Salix nigra</i>, <i>Populus deltoides</i>, <i>Rhamnus cathartica</i></p> <p>Understory: <i>Echinochloa crus-galli</i>, <i>Persicaria sp.</i>, <i>Taraxacum officinale</i>, turf grasses</p>	<input type="checkbox"/> Storm (heavy rain)	<input type="checkbox"/> Overcast	<input checked="" type="checkbox"/> Rain (steady rain)	<input checked="" type="checkbox"/> Clear/Sunny	<input type="checkbox"/> Showers (intermittent rain)		<p>3. Circle flow regime: <u>EPHEMERAL</u> PERENNIAL <u>INTERMITTENT</u></p> <p>4. Stream habitats present: <input type="checkbox"/> Pool(s) <input type="checkbox"/> Run(s) <input type="checkbox"/> Riffles(s) <input checked="" type="checkbox"/> N/A</p> <p>5. Stream Velocity: <input type="checkbox"/> fast <input type="checkbox"/> moderate <input type="checkbox"/> slow <input checked="" type="checkbox"/> N/A</p> <p>6. Nature of the particles in the stream bottom:</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>None</th> <th>Little</th> <th>Some</th> <th>Most</th> </tr> </thead> <tbody> <tr> <td>silt/clay/mud</td> <td></td> <td></td> <td></td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td>sand</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>gravel</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>cobbles (2 - 10" diam.)</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>boulders (> 10" diam.)</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>bedrock</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>7. Presence of naturally occurring organic material in stream: <input type="checkbox"/> None <input type="checkbox"/> Occasional <input checked="" type="checkbox"/> Unknown <input checked="" type="checkbox"/> Plentiful</p> <p>8. Facing upstream, does this stream have <u>tree</u> cover for 50 feet on the: left side <u>no</u> right side <u>no</u></p> <p>What is the % cover of <u>trees</u> per side of the stream? left side <u>0</u> % right side <u>0</u> %</p> <p>Facing upstream, does this stream have <u>shrub</u> cover for 50 feet on the: left side <u>no</u> right side <u>no</u></p> <p>What is the % cover of <u>shrubs</u> per side of the stream? <u>0</u> <u>0</u> Observer initials: _____</p>		None	Little	Some	Most	silt/clay/mud				<input checked="" type="checkbox"/>	sand					gravel					cobbles (2 - 10" diam.)					boulders (> 10" diam.)					bedrock					<p>9. Water Appearance:</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr><td><input type="checkbox"/> clear</td></tr> <tr><td><input type="checkbox"/> milky</td></tr> <tr><td><input type="checkbox"/> foamy</td></tr> <tr><td><input type="checkbox"/> turbid</td></tr> <tr><td><input type="checkbox"/> light brown</td></tr> <tr><td><input type="checkbox"/> dark brown</td></tr> <tr><td><input type="checkbox"/> oily sheen</td></tr> <tr><td><input type="checkbox"/> orange</td></tr> <tr><td><input type="checkbox"/> greenish</td></tr> <tr><td><input checked="" type="checkbox"/> other:</td></tr> </table> <p>10. Water Odor: <input type="checkbox"/> sewage <input type="checkbox"/> chlorine <input type="checkbox"/> fishy <input type="checkbox"/> rotten eggs <input type="checkbox"/> organic <input checked="" type="checkbox"/> other: none</p> <p>11. Presence of logs or large woody debris in stream: <input type="checkbox"/> None <input checked="" type="checkbox"/> Occasional <input type="checkbox"/> Plentiful</p> <p>12. Pick the category that best describes the extent to which vegetation <u>shades</u> the stream: <input checked="" type="checkbox"/> 0% <input type="checkbox"/> 50% <input type="checkbox"/> 100% <input type="checkbox"/> 25% <input type="checkbox"/> 75% <input type="checkbox"/> other - %</p> <p>13. Pick the description that best fits the stream bank and the channel (facing upstream):</p> <p>a) Stream bank:</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Left</th> <th></th> <th>Right</th> </tr> </thead> <tbody> <tr> <td><input type="checkbox"/></td> <td>Vertical/undercut</td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/></td> <td>Steeply sloping (>30°)</td> <td><input type="checkbox"/></td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td>Gradual/No slope (<30°)</td> <td><input checked="" type="checkbox"/></td> </tr> </tbody> </table> <p>b) Shape of the channel:</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Narrow, Deep</th> <th>Wide, Deep</th> </tr> </thead> <tbody> <tr> <td><input checked="" type="checkbox"/> Narrow, Shallow</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </tbody> </table>	<input type="checkbox"/> clear	<input type="checkbox"/> milky	<input type="checkbox"/> foamy	<input type="checkbox"/> turbid	<input type="checkbox"/> light brown	<input type="checkbox"/> dark brown	<input type="checkbox"/> oily sheen	<input type="checkbox"/> orange	<input type="checkbox"/> greenish	<input checked="" type="checkbox"/> other:	Left		Right	<input type="checkbox"/>	Vertical/undercut	<input type="checkbox"/>	<input type="checkbox"/>	Steeply sloping (>30°)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Gradual/No slope (<30°)	<input checked="" type="checkbox"/>		Narrow, Deep	Wide, Deep	<input checked="" type="checkbox"/> Narrow, Shallow	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																																
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<p>14. Describe the streamside cover. Check "P" if present, "C" if common</p> <p>a) Along the water's edge and stream bank only (facing upstream):</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Left</th> <th></th> <th colspan="2">Right</th> </tr> <tr> <th>P</th> <th>C</th> <th></th> <th>P</th> <th>C</th> </tr> </thead> <tbody> <tr><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td>Trees</td><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td></tr> <tr><td></td><td></td><td>Bushes, Shrubs</td><td></td><td></td></tr> <tr><td></td><td></td><td>Tall grasses, forbs</td><td></td><td></td></tr> <tr><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td>Lawn, maintained landscape</td><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td></tr> <tr><td></td><td></td><td>Boulders/Rocks/Rip Rap</td><td></td><td></td></tr> <tr><td></td><td></td><td>Gravel/Sand</td><td></td><td></td></tr> <tr><td></td><td></td><td>Bare Soil</td><td></td><td></td></tr> <tr><td></td><td></td><td>Pavement, Structures, Gabions</td><td></td><td></td></tr> </tbody> </table> <p>b) From the top of the streambank out to 50 feet:</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Left</th> <th></th> <th colspan="2">Right</th> </tr> <tr> <th>P</th> <th>C</th> <th></th> <th>P</th> <th>C</th> </tr> </thead> <tbody> <tr><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td>Trees</td><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td></tr> <tr><td></td><td></td><td>Bushes, Shrubs</td><td></td><td></td></tr> <tr><td></td><td></td><td>Tall grasses, forbs</td><td></td><td></td></tr> <tr><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td>Lawn, maintained landscape</td><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td></tr> <tr><td></td><td></td><td>Boulders/Rocks</td><td></td><td></td></tr> <tr><td></td><td></td><td>Gravel/Sand</td><td></td><td></td></tr> <tr><td></td><td></td><td>Bare Soil</td><td></td><td></td></tr> <tr><td></td><td></td><td>Pavement, Structures</td><td></td><td></td></tr> </tbody> </table> <p>15. 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Ordinary High Water Mark Determination</p> <p>Check "P" if observed; Check "U" if used to determine OHWM</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>P</th> <th>U</th> <th></th> </tr> </thead> <tbody> <tr><td></td><td></td><td>Natural line impressed on the bank</td></tr> <tr><td></td><td></td><td>Shelving</td></tr> <tr><td></td><td></td><td>Changes in the character of soil</td></tr> <tr><td></td><td></td><td>Destruction of terrestrial vegetation</td></tr> <tr><td></td><td></td><td>Presence of litter and debris</td></tr> <tr><td></td><td></td><td>Wracking</td></tr> <tr><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td>Vegetation matted down; bent, or absent</td></tr> <tr><td></td><td></td><td>Sediment sorting</td></tr> <tr><td></td><td></td><td>Leaf litter disturbed or washed away</td></tr> <tr><td></td><td></td><td>Scour</td></tr> <tr><td></td><td></td><td>Deposition</td></tr> <tr><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td>Multiple observed flow events</td></tr> <tr><td></td><td></td><td>Bed and banks</td></tr> <tr><td></td><td></td><td>Water staining</td></tr> <tr><td></td><td></td><td>Change in plant community</td></tr> </tbody> </table> <p>17. 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Observed Fauna (make note of wildlife deterrents such as bird wires)</p> <p>List</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr><td><input type="checkbox"/></td><td>Invertebrates</td><td>_____</td></tr> <tr><td><input type="checkbox"/></td><td>Birds</td><td>_____</td></tr> <tr><td><input type="checkbox"/></td><td>Mammals</td><td>_____</td></tr> <tr><td><input type="checkbox"/></td><td>Reptile/Amphians</td><td>_____</td></tr> <tr><td><input type="checkbox"/></td><td>Fish</td><td>_____</td></tr> </table> <p>19. Additional Comments Landscaped ditch; transitions into woods before exiting into Willow Crk</p>		P	U				Natural line impressed on the bank			Shelving			Changes in the character of soil			Destruction of terrestrial vegetation			Presence of litter and debris			Wracking	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Vegetation matted down; bent, or absent			Sediment sorting			Leaf litter disturbed or washed away			Scour			Deposition	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Multiple observed flow events			Bed and banks			Water staining			Change in plant community				<input type="checkbox"/>	DELINEATE	<input type="checkbox"/>	<input type="checkbox"/>	TNW	<input type="checkbox"/>	<input type="checkbox"/>	TNWW	<input type="checkbox"/>	<input type="checkbox"/>	RPW	<input type="checkbox"/>	<input type="checkbox"/>	RPWWD	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Invertebrates	_____	<input type="checkbox"/>	Birds	_____	<input type="checkbox"/>	Mammals	_____	<input type="checkbox"/>	Reptile/Amphians	_____	<input type="checkbox"/>	Fish	_____
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Investigators: CBM, BJH

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JUNE 2022

Stream Characterization **Date:** 9/24/2019 **Time:** 9:45am **Site:** ORD **County:** Cook
Field ID: Stream/Ditch **Stream Name:** Ditch 22 **Investigators:** CBM, BJH

Weather in the past 24 hours: <input type="checkbox"/> Storm (heavy rain) <input type="checkbox"/> Overcast <input checked="" type="checkbox"/> Rain (steady rain) <input checked="" type="checkbox"/> Clear/Sunny <input type="checkbox"/> Showers (intermittent rain)		3. Circle flow regime: <u>EPHEMERAL</u> PERENNIAL <u>INTERMITTENT</u>		9. Water Appearance: <input type="checkbox"/> clear <input type="checkbox"/> milky <input type="checkbox"/> foamy <input type="checkbox"/> turbid <input type="checkbox"/> light brown <input type="checkbox"/> dark brown <input checked="" type="checkbox"/> oily sheen <input type="checkbox"/> orange <input type="checkbox"/> none <input type="checkbox"/> greenish <input type="checkbox"/> other:		10. Water Odor: <input type="checkbox"/> sewage <input type="checkbox"/> chlorine <input type="checkbox"/> fishy <input type="checkbox"/> rotten eggs <input type="checkbox"/> organic <input checked="" type="checkbox"/> other: none			
1. a) Approximate depth of water in stream: <input type="checkbox"/> N/A <input type="checkbox"/> 1"		4. Stream habitats present: <input type="checkbox"/> Pool(s) <input type="checkbox"/> Run(s) <input type="checkbox"/> Riffles(s) <input checked="" type="checkbox"/> N/A		11. Presence of logs or large woody debris in stream: <input checked="" type="checkbox"/> None <input type="checkbox"/> Occasional <input type="checkbox"/> Plentiful		12. Pick the category that best describes the extent to which vegetation <u>shades</u> the stream: <input checked="" type="checkbox"/> 0% <input type="checkbox"/> 50% <input type="checkbox"/> 100% <input type="checkbox"/> 25% <input type="checkbox"/> 75% <input type="checkbox"/> other - %			
b) Approximate width of water flow: <input type="checkbox"/> N/A <input type="checkbox"/> 10-12 ft		5. Stream Velocity: <input type="checkbox"/> fast <input type="checkbox"/> moderate <input type="checkbox"/> slow <input checked="" type="checkbox"/> N/A		13. Pick the description that best fits the stream bank and the channel (facing upstream): a) Stream bank: Left <input type="checkbox"/> Vertical/undercut Right <input checked="" type="checkbox"/> Steeply sloping (>30°) <input type="checkbox"/> Gradual/No slope (<30°)		b) Shape of the channel: <input type="checkbox"/> Narrow, Deep <input type="checkbox"/> Wide, Deep <input checked="" type="checkbox"/> Narrow, Shallow <input type="checkbox"/> Wide, Shallow			
c) Approximate width of stream: (from top of bank to top of bank) <input type="checkbox"/> N/A <input type="checkbox"/> 25 ft		6. Nature of the particles in the stream bottom: None Little Some Most silt/clay/mud <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> sand <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> cobbles (2 - 10" diam.) <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> boulders (> 10" diam.) <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> bedrock <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		7. Presence of naturally occurring organic material in stream: <input type="checkbox"/> None <input type="checkbox"/> Occasional <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Plentiful		14. Describe the streamside cover. Check "P" if present, "C" if common: a) Along the water's edge and stream bank only (facing upstream): Left Right P C P C <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Trees Bushes, Shrubs Tall grasses, forbs Lawn, maintained landscape Boulders/Rocks/Rip Rap Gravel/Sand Bare Soil Pavement, Structures, Gabions		15. In the vicinity of the stream, Check "P" if present, "C" if common: Left Right P C P C <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Trees Bushes, Shrubs Tall grasses, forbs Lawn, maintained landscape Boulders/Rocks Gravel/Sand Bare Soil Pavement, Structures	
2. Plant Species Adjacent to stream (scientific name): Trees: <u>Gleditsia triacanthos</u> Understory: <u>Eleocharis obtusa</u> , <u>Cyperus esculentus</u> , <u>Typha angustifolia</u> , <u>Echinochloa crus-galli</u>		8. Facing upstream, does this stream have <u>tree</u> cover for 50 feet on the: left side <input type="checkbox"/> no right side <input type="checkbox"/> no What is the % cover of <u>trees</u> per side of the stream? left side <input type="checkbox"/> 0 % right side <input type="checkbox"/> 0 % Facing upstream, does this stream have <u>shrub</u> cover for 50 feet on the: left side <input type="checkbox"/> no right side <input type="checkbox"/> no What is the % cover of <u>shrubs</u> per side of the stream? 0 0 Observer initials:		16. Ordinary High Water Mark Determination Check "P" if observed; Check "U" if used to determine OHWM P U <input type="checkbox"/> <input type="checkbox"/> Natural line impressed on the bank <input type="checkbox"/> <input type="checkbox"/> Shelving <input type="checkbox"/> <input type="checkbox"/> Changes in the character of soil <input type="checkbox"/> <input type="checkbox"/> Destruction of terrestrial vegetation <input type="checkbox"/> <input type="checkbox"/> Presence of litter and debris <input type="checkbox"/> <input type="checkbox"/> Wracking <input type="checkbox"/> <input type="checkbox"/> Vegetation matted down; bent, or absent <input type="checkbox"/> <input type="checkbox"/> Sediment sorting <input type="checkbox"/> <input type="checkbox"/> Leaf litter disturbed or washed away <input type="checkbox"/> <input type="checkbox"/> Scour <input type="checkbox"/> <input type="checkbox"/> Deposition <input type="checkbox"/> <input type="checkbox"/> Multiple observed flow events <input type="checkbox"/> <input type="checkbox"/> Bed and banks <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> Water staining <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> Change in plant community		17. Waters Type <input checked="" type="checkbox"/> DELINEATE <input type="checkbox"/> TNW <input type="checkbox"/> TNWW <input type="checkbox"/> RPW <input type="checkbox"/> RPWWD <input type="checkbox"/> RPWNN <input type="checkbox"/> NRPW <input type="checkbox"/> NRPWW <input type="checkbox"/> ISOLATE <input type="checkbox"/> UPLAND <input type="checkbox"/> TNWRPW			
b) From the top of the streambank out to 50 feet: Left Right P C P C <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Trees Bushes, Shrubs Tall grasses, forbs Lawn, maintained landscape Boulders/Rocks Gravel/Sand Bare Soil Pavement, Structures		18. Observed Fauna (make note of wildlife deterrents such as bird wires) List <input type="checkbox"/> Invertebrates <input type="checkbox"/> Birds <input type="checkbox"/> Mammals <input type="checkbox"/> Reptile/Amphians <input type="checkbox"/> Fish		19. Additional Comments roadside ditch; drop inlets drain the feature					
Datasheet entered by:				Last Revised: 09/25					

Investigators: CBM, BJH

Page 1 of 1
JUNE 2022

Stream Characterization **Date:** 9/25/2019 **Time:** 5:10pm **Site:** ORD **County:** Cook
Field ID: Stream Ditch **Stream Name:** Ditch 24 **Investigators:** CBM, BJH

Weather in the past 24 hours: <input type="checkbox"/> Storm (heavy rain) <input type="checkbox"/> Overcast <input checked="" type="checkbox"/> Rain (steady rain) <input checked="" type="checkbox"/> Clear/Sunny <input type="checkbox"/> Showers (intermittent rain)		3. Circle flow regime: <u>EPHEMERAL</u> PERENNIAL <u>INTERMITTENT</u>		9. Water Appearance: <input checked="" type="checkbox"/> clear <input type="checkbox"/> milky <input type="checkbox"/> foamy <input type="checkbox"/> turbid <input type="checkbox"/> light brown <input type="checkbox"/> dark brown <input type="checkbox"/> oily sheen <input type="checkbox"/> orange <input type="checkbox"/> none <input type="checkbox"/> greenish <input type="checkbox"/> other:		10. Water Odor: <input type="checkbox"/> sewage <input type="checkbox"/> chlorine <input type="checkbox"/> fishy <input type="checkbox"/> rotten eggs <input type="checkbox"/> organic <input checked="" type="checkbox"/> other: none																																																																																																																																																	
1. a) Approximate depth of water in stream: <input type="checkbox"/> N/A <input type="checkbox"/> 0-3 inches b) Approximate width of water flow: <input type="checkbox"/> N/A <input type="checkbox"/> 6 ft c) Approximate width of stream: (from top of bank to top of bank) <input type="checkbox"/> 15 ft d) Approximate height of banks (channel depth): left <input type="checkbox"/> 1 ft right <input type="checkbox"/> 1 ft e) Approximate depth of pool(s): <input checked="" type="checkbox"/> N/A <input type="checkbox"/>		4. Stream habitats present: <input type="checkbox"/> Pool(s) <input type="checkbox"/> Run(s) <input type="checkbox"/> Riffles(s) <input checked="" type="checkbox"/> N/A 5. Stream Velocity: <input type="checkbox"/> fast <input type="checkbox"/> moderate <input type="checkbox"/> slow <input checked="" type="checkbox"/> N/A 6. Nature of the particles in the stream bottom: <table border="1" style="width:100%; text-align: center;"> <tr> <th></th> <th>None</th> <th>Little</th> <th>Some</th> <th>Most</th> </tr> <tr> <td>silt/clay/mud</td> <td></td> <td></td> <td></td> <td>X</td> </tr> <tr> <td>sand</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>gravel</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>cobbles (2 - 10" diam.)</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>boulders (> 10" diam.)</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>bedrock</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>			None	Little	Some	Most	silt/clay/mud				X	sand					gravel					cobbles (2 - 10" diam.)					boulders (> 10" diam.)					bedrock					11. Presence of logs or large woody debris in stream: <input checked="" type="checkbox"/> None <input type="checkbox"/> Occasional <input type="checkbox"/> Plentiful 12. Pick the category that best describes the extent to which vegetation shades the stream: <input type="checkbox"/> 0% <input type="checkbox"/> 50% <input type="checkbox"/> 100% <input type="checkbox"/> 25% <input type="checkbox"/> 75% <input checked="" type="checkbox"/> other - 5%																																																																																																																
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2. Plant Species Adjacent to stream (scientific name): Trees: <u>Salix sp.</u> Understory: <u>Phragmites australis, Lythrum salicaria,</u> <u>Solidago sempervirens,</u> <u>Symphotrichum subulatum</u>		8. Facing upstream, does this stream have <u>tree</u> cover for 50 feet on the: left side <input type="checkbox"/> no right side <input checked="" type="checkbox"/> yes What is the % cover of <u>trees</u> per side of the stream? left side <input type="checkbox"/> 0 % right side <input type="checkbox"/> 5 % Facing upstream, does this stream have <u>shrub</u> cover for 50 feet on the: left side <input type="checkbox"/> no right side <input type="checkbox"/> no What is the % cover of <u>shrubs</u> per side of the stream? Observer initials:		13. Pick the description that best fits the stream bank and the channel (facing upstream): a) Stream bank: <table border="1" style="width:100%; text-align: center;"> <tr> <th>Left</th> <th></th> <th>Right</th> </tr> <tr> <td></td> <td>Vertical/undercut</td> <td></td> </tr> <tr> <td></td> <td>Steeply sloping (>30°)</td> <td></td> </tr> <tr> <td>X</td> <td>Gradual/No slope (<30°)</td> <td>X</td> </tr> </table> b) Shape of the channel: <input type="checkbox"/> Narrow, Deep <input type="checkbox"/> Wide, Deep <input checked="" type="checkbox"/> Narrow, Shallow <input type="checkbox"/> Wide, Shallow		Left		Right		Vertical/undercut			Steeply sloping (>30°)		X	Gradual/No slope (<30°)	X																																																																																																																																						
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Stream Characterization **Date:** 9/25/2019 **Time:** 3:00pm **Site:** ORD **County:** Cook
Field ID: Stream/Ditch **Stream Name:** Ditch 25 **Investigators:** CBM, BJH

Weather in the past 24 hours: <input type="checkbox"/> Storm (heavy rain) <input type="checkbox"/> Overcast <input checked="" type="checkbox"/> Rain (steady rain) <input checked="" type="checkbox"/> Clear/Sunny <input type="checkbox"/> Showers (intermittent rain)		3. Circle flow regime: EPHEMERAL PERENNIAL <u>INTERMITTENT</u>		9. Water Appearance: <input checked="" type="checkbox"/> clear <input type="checkbox"/> milky <input type="checkbox"/> foamy <input type="checkbox"/> turbid <input type="checkbox"/> light brown <input type="checkbox"/> dark brown <input type="checkbox"/> oily sheen <input type="checkbox"/> orange <input type="checkbox"/> none <input type="checkbox"/> greenish <input type="checkbox"/> other:		10. Water Odor: <input type="checkbox"/> sewage <input type="checkbox"/> chlorine <input type="checkbox"/> fishy <input type="checkbox"/> rotten eggs <input type="checkbox"/> organic <input checked="" type="checkbox"/> other: none																																																																																																																				
1. a) Approximate depth of water in stream: <input type="checkbox"/> N/A <input type="checkbox"/> 1-2"		4. Stream habitats present: <input type="checkbox"/> Pool(s) <input type="checkbox"/> Run(s) <input type="checkbox"/> Riffles(s) <input checked="" type="checkbox"/> N/A		11. Presence of logs or large woody debris in stream: <input checked="" type="checkbox"/> None <input type="checkbox"/> Occasional <input type="checkbox"/> Plentiful		12. Pick the category that best describes the extent to which vegetation shades the stream: <input type="checkbox"/> 0% <input type="checkbox"/> 50% <input type="checkbox"/> 100% <input type="checkbox"/> 25% <input type="checkbox"/> 75% <input checked="" type="checkbox"/> other - 10%																																																																																																																				
b) Approximate width of water flow: <input type="checkbox"/> N/A <input type="checkbox"/> 3 ft		5. Stream Velocity: <input type="checkbox"/> fast <input type="checkbox"/> moderate <input type="checkbox"/> slow <input checked="" type="checkbox"/> N/A																																																																																																																								
c) Approximate width of stream: (from top of bank to top of bank) <input type="checkbox"/> 20 ft		6. Nature of the particles in the stream bottom: <table border="1" style="width:100%; text-align: center;"> <tr> <td></td> <td>None</td> <td>Little</td> <td>Some</td> <td>Most</td> </tr> <tr> <td>silt/clay/mud</td> <td></td> <td></td> <td></td> <td>X</td> </tr> <tr> <td>sand</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>cobbles (2 - 10" diam.)</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>boulders (> 10" diam.)</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>bedrock</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>			None	Little	Some	Most	silt/clay/mud				X	sand					cobbles (2 - 10" diam.)					boulders (> 10" diam.)					bedrock					13. Pick the description that best fits the stream bank and the channel (facing upstream): a) Stream bank: <table border="1" style="width:100%;"> <tr> <td style="width:50%;">Left</td> <td style="width:50%;">Right</td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td style="text-align: center;">Vertical/undercut</td> <td></td> </tr> <tr> <td style="text-align: center;">Steeply sloping (>30°)</td> <td></td> </tr> <tr> <td style="text-align: center;">Gradual/No slope (<30°)</td> <td><input checked="" type="checkbox"/></td> </tr> </table>		Left	Right	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Vertical/undercut		Steeply sloping (>30°)		Gradual/No slope (<30°)	<input checked="" type="checkbox"/>																																																																											
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d) Approximate height of banks (channel depth): left <input type="checkbox"/> 10 ft right <input type="checkbox"/> 5 ft		7. Presence of naturally occurring organic material in stream: <input type="checkbox"/> None <input type="checkbox"/> Occasional <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Plentiful		b) Shape of the channel: <input type="checkbox"/> Narrow, Deep <input type="checkbox"/> Wide, Deep <input checked="" type="checkbox"/> Narrow, Shallow <input type="checkbox"/> Wide, Shallow																																																																																																																						
e) Approximate depth of pool(s): <input checked="" type="checkbox"/> N/A		8. Facing upstream, does this stream have <u>tree</u> cover for 50 feet on the: left side <input type="checkbox"/> no right side <input type="checkbox"/> yes What is the % cover of <u>trees</u> per side of the stream? left side <input type="checkbox"/> 0 % right side <input type="checkbox"/> 5 % Facing upstream, does this stream have <u>shrub</u> cover for 50 feet on the: left side <input type="checkbox"/> no right side <input type="checkbox"/> no What is the % cover of <u>shrubs</u> per side of the stream? Observer initials:																																																																																																																								
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Stream Characterization **Date:** 8/30/2019 **Time:** 11:00 AM **Site:** ORD **County:** Cook
Field ID: Stream/Ditch **Stream Name:** Ditch 26 **Investigators:** CBM, BJH

Weather in the past 24 hours: <input type="checkbox"/> Storm (heavy rain) <input type="checkbox"/> Overcast <input checked="" type="checkbox"/> Rain (steady rain) <input checked="" type="checkbox"/> Clear/Sunny <input type="checkbox"/> Showers (intermittent rain)		3. Circle flow regime: <u>EPHEMERAL</u> PERENNIAL INTERMITTENT		9. Water Appearance: <input type="checkbox"/> clear <input type="checkbox"/> milky <input type="checkbox"/> foamy <input type="checkbox"/> turbid <input type="checkbox"/> light brown <input type="checkbox"/> dark brown <input type="checkbox"/> oily sheen <input type="checkbox"/> orange <input type="checkbox"/> none <input type="checkbox"/> greenish <input checked="" type="checkbox"/> x <input type="checkbox"/> other:		10. Water Odor: <input type="checkbox"/> sewage <input type="checkbox"/> chlorine <input type="checkbox"/> fishy <input type="checkbox"/> rotten eggs <input type="checkbox"/> organic <input checked="" type="checkbox"/> other: none																																																																
1. a) Approximate depth of water in stream: <input type="checkbox"/> N/A <input type="checkbox"/> 0		4. Stream habitats present: <input type="checkbox"/> Pool(s) <input type="checkbox"/> Run(s) <input type="checkbox"/> Riffles(s) <input checked="" type="checkbox"/> N/A		5. Stream Velocity: <input type="checkbox"/> fast <input type="checkbox"/> moderate <input type="checkbox"/> slow <input checked="" type="checkbox"/> N/A		11. Presence of logs or large woody debris in stream: <input checked="" type="checkbox"/> None <input type="checkbox"/> Occasional <input type="checkbox"/> Plentiful																																																																
b) Approximate width of water flow: <input type="checkbox"/> N/A <input type="checkbox"/> none		6. Nature of the particles in the stream bottom: <table border="1" style="width:100%; text-align: center;"> <tr> <td></td> <td>None</td> <td>Little</td> <td>Some</td> <td>Most</td> </tr> <tr> <td>silt/clay/mud</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>sand</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>gravel</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>cobbles (2 - 10" diam.)</td> <td></td> <td></td> <td></td> <td>X</td> </tr> <tr> <td>boulders (> 10" diam.)</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>bedrock</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>			None			Little	Some	Most	silt/clay/mud					sand					gravel					cobbles (2 - 10" diam.)				X	boulders (> 10" diam.)					bedrock																																		
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c) Approximate width of stream: (from top of bank to top of bank) <input type="checkbox"/> 75 ft		7. Presence of naturally occurring organic material in stream: <input type="checkbox"/> None <input checked="" type="checkbox"/> Occasional <input type="checkbox"/> Unknown <input type="checkbox"/> Plentiful		12. Pick the category that best describes the extent to which vegetation shades the stream: <input type="checkbox"/> 0% <input type="checkbox"/> 50% <input type="checkbox"/> 100% <input checked="" type="checkbox"/> 25% <input type="checkbox"/> 75% <input type="checkbox"/> other - %																																																																		
d) Approximate height of banks (channel depth): left <input type="checkbox"/> 20 ft right <input type="checkbox"/> 40 ft		8. Facing upstream, does this stream have <u>tree</u> cover for 50 feet on the: left side <input checked="" type="checkbox"/> yes right side <input checked="" type="checkbox"/> yes What is the % cover of <u>trees</u> per side of the stream? left side <input type="checkbox"/> 5 % right side <input type="checkbox"/> 5 %		13. Pick the description that best fits the stream bank and the channel (facing upstream): a) Stream bank: <table border="1" style="width:100%; text-align: center;"> <tr> <td>Left</td> <td>Vertical/undercut</td> <td>Right</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td>Steeply sloping (>30°)</td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td></td> <td>Gradual/No slope (<30°)</td> <td></td> </tr> </table>		Left	Vertical/undercut	Right	<input checked="" type="checkbox"/>	Steeply sloping (>30°)	<input checked="" type="checkbox"/>		Gradual/No slope (<30°)																																																									
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2. Plant Species Adjacent to stream (scientific name): Trees: <i>Populus deltoides</i> , <i>Salix</i> sp. Understory: <i>Phragmites australis</i> , <i>Lythrum salicaria</i> , <i>Phalaris arundinacea</i> , <i>Cyperus esculentus</i>																																																																						
14. Describe the streamside cover. Check "P" if present, "C" if common a) Along the water's edge and stream bank only (facing upstream): <table border="1" style="width:100%; text-align: center;"> <tr> <th colspan="2">Left</th> <th></th> <th colspan="2">Right</th> </tr> <tr> <th>P</th> <th>C</th> <th></th> <th>P</th> <th>C</th> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td></td> <td>Trees</td> <td><input checked="" type="checkbox"/></td> <td></td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td></td> <td>Bushes, Shrubs</td> <td><input checked="" type="checkbox"/></td> <td></td> </tr> <tr> <td></td> <td></td> <td>Tall grasses, forbs</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>Lawn, maintained landscape</td> <td></td> <td></td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td>Boulders/Rocks/Rip Rap</td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td></td> <td></td> <td>Gravel/Sand</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>Bare Soil</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>Pavement, Structures, Gabions</td> <td></td> <td></td> </tr> </table>						Left			Right		P	C		P	C	<input checked="" type="checkbox"/>		Trees	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		Bushes, Shrubs	<input checked="" type="checkbox"/>				Tall grasses, forbs					Lawn, maintained landscape			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Boulders/Rocks/Rip Rap	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			Gravel/Sand					Bare Soil					Pavement, Structures, Gabions																	
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15. In the vicinity of the stream, Check "P" if present, "C" if common: <table border="1" style="width:100%; text-align: center;"> <tr> <th colspan="2">Left</th> <th></th> <th colspan="2">Right</th> </tr> <tr> <th>P</th> <th>C</th> <th></th> <th>P</th> <th>C</th> </tr> <tr> <td></td> <td></td> <td>Natural Streamside plant cover degraded</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>Banks collapsed/eroded</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>Garbage/junk adjacent to the stream</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>Foam or sheen on bank</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>Mud, silt, or sand in or entering the stream</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>Garbage/junk in the stream</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>Yard waste on bank (clippings, leaves, etc.)</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>Livestock in or with unrestricted access</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>Actively discharging pipes</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>Other pipes</td> <td><input checked="" type="checkbox"/></td> <td></td> </tr> <tr> <td></td> <td></td> <td>Ditches entering stream</td> <td></td> <td></td> </tr> </table>						Left			Right		P	C		P	C			Natural Streamside plant cover degraded					Banks collapsed/eroded					Garbage/junk adjacent to the stream					Foam or sheen on bank					Mud, silt, or sand in or entering the stream					Garbage/junk in the stream					Yard waste on bank (clippings, leaves, etc.)					Livestock in or with unrestricted access					Actively discharging pipes					Other pipes	<input checked="" type="checkbox"/>				Ditches entering stream		
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18. Observed Fauna (make note of wildlife deterrents such as bird wires) List <input checked="" type="checkbox"/> Invertebrates crickets <input type="checkbox"/> Birds <input type="checkbox"/> Mammals <input type="checkbox"/> Reptile/Amphians <input type="checkbox"/> Fish																																																																						
19. Additional Comments Ditch is maintained by brush clearing/cutting.																																																																						
Datasheet entered by:				Last Revised: 09/25																																																																		

Stream Characterization **Date:** 9/17/2019 **Time:** 2:30pm **Site:** ORD **County:** Cook
Field ID: Stream/Ditch **Stream Name:** Ditch 27 **Investigators:** CBM, BJH

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Stream Characterization **Date:** 9/17/2019 **Time:** 3:15pm **Site:** ORD **County:** Cook
Field ID: Stream Ditch **Stream Name:** Ditch 28 **Investigators:** CBM, BJH

Weather in the past 24 hours: <input type="checkbox"/> Storm (heavy rain) <input type="checkbox"/> Overcast <input checked="" type="checkbox"/> Rain (steady rain) <input checked="" type="checkbox"/> Clear/Sunny <input type="checkbox"/> Showers (intermittent rain)		3. Circle flow regime: <u>EPHEMERAL</u> PERENNIAL <input checked="" type="checkbox"/> INTERMITTENT		9. Water Appearance: <input checked="" type="checkbox"/> clear <input type="checkbox"/> milky <input type="checkbox"/> foamy <input type="checkbox"/> turbid <input type="checkbox"/> light brown <input type="checkbox"/> dark brown <input type="checkbox"/> oily sheen <input type="checkbox"/> orange <input type="checkbox"/> none <input type="checkbox"/> greenish <input type="checkbox"/> other:		10. Water Odor: <input type="checkbox"/> sewage <input type="checkbox"/> chlorine <input type="checkbox"/> fishy <input type="checkbox"/> rotten eggs <input type="checkbox"/> organic <input checked="" type="checkbox"/> other: none																																																																																																																																																	
1. a) Approximate depth of water in stream: <input type="checkbox"/> N/A 3-4 inches b) Approximate width of water flow: <input type="checkbox"/> N/A 8 ft c) Approximate width of stream: (from top of bank to top of bank) 12-15 ft d) Approximate height of banks (channel depth): left <input type="checkbox"/> 1 ft right <input type="checkbox"/> 1 ft e) Approximate depth of pool(s): <input checked="" type="checkbox"/> N/A		4. Stream habitats present: <input type="checkbox"/> Pool(s) <input type="checkbox"/> Run(s) <input type="checkbox"/> Riffles(s) <input checked="" type="checkbox"/> N/A 5. Stream Velocity: <input type="checkbox"/> fast <input type="checkbox"/> moderate <input type="checkbox"/> slow <input checked="" type="checkbox"/> N/A 6. Nature of the particles in the stream bottom: <table border="1" style="width:100%; text-align: center;"> <tr> <th></th> <th>None</th> <th>Little</th> <th>Some</th> <th>Most</th> </tr> <tr> <td>silt/clay/mud</td> <td></td> <td></td> <td></td> <td>X</td> </tr> <tr> <td>sand</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>gravel</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>cobbles (2 - 10" diam.)</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>boulders (> 10" diam.)</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>bedrock</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>			None	Little	Some	Most	silt/clay/mud				X	sand					gravel					cobbles (2 - 10" diam.)					boulders (> 10" diam.)					bedrock					11. Presence of logs or large woody debris in stream: <input type="checkbox"/> None <input type="checkbox"/> Occasional <input type="checkbox"/> Plentiful 12. Pick the category that best describes the extent to which vegetation shades the stream: <input checked="" type="checkbox"/> 0% <input type="checkbox"/> 50% <input type="checkbox"/> 100% <input type="checkbox"/> 25% <input type="checkbox"/> 75% <input type="checkbox"/> other - %																																																																																																																
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2. Plant Species Adjacent to stream (scientific name): Trees: <i>Fraxinus americana</i> Understory: <i>Typha angustifolia, Solidago sempervirens</i>		7. Presence of naturally occurring organic material in stream: <input type="checkbox"/> None <input type="checkbox"/> Occasional <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Plentiful 8. Facing upstream, does this stream have <u>tree</u> cover for 50 feet on the: left side <input type="checkbox"/> no right side <input checked="" type="checkbox"/> yes What is the % cover of <u>trees</u> per side of the stream? left side <input type="checkbox"/> 0 % right side <input type="checkbox"/> 15 % Facing upstream, does this stream have <u>shrub</u> cover for 50 feet on the: left side <input type="checkbox"/> no right side <input type="checkbox"/> no What is the % cover of <u>shrubs</u> per side of the stream? 0 0 Observer initials:		13. Pick the description that best fits the stream bank and the channel (facing upstream): a) Stream bank: <table border="1" style="width:100%; text-align: center;"> <tr> <th>Left</th> <th></th> <th>Right</th> </tr> <tr> <td></td> <td>Vertical/undercut</td> <td></td> </tr> <tr> <td></td> <td>Steeply sloping (>30°)</td> <td></td> </tr> <tr> <td>X</td> <td>Gradual/No slope (<30°)</td> <td>X</td> </tr> </table> b) Shape of the channel: <input type="checkbox"/> Narrow, Deep <input type="checkbox"/> Wide, Deep <input checked="" type="checkbox"/> Narrow, Shallow <input type="checkbox"/> Wide, Shallow		Left		Right		Vertical/undercut			Steeply sloping (>30°)		X	Gradual/No slope (<30°)	X																																																																																																																																						
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18. Observed Fauna (make note of wildlife deterrents such as bird wires) List <input type="checkbox"/> Invertebrates <input type="checkbox"/> Birds <input type="checkbox"/> Mammals <input type="checkbox"/> Reptile/Amphians <input type="checkbox"/> Fish		19. Additional Comments Two sections separated by gravel access road to equipment shed.																																																																																																																																																					
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Stream Characterization **Date:** 9/17/2019 **Time:** 3:30pm **Site:** ORD **County:** Cook
Field ID: Stream/Ditch **Stream Name:** Ditch 29 **Investigators:** CBM, BJH

Weather in the past 24 hours: <input type="checkbox"/> Storm (heavy rain) <input type="checkbox"/> Overcast <input checked="" type="checkbox"/> Rain (steady rain) <input checked="" type="checkbox"/> Clear/Sunny <input type="checkbox"/> Showers (intermittent rain)		3. Circle flow regime: EPHEMERAL PERENNIAL <u>INTERMITTENT</u>		9. Water Appearance: <input checked="" type="checkbox"/> clear <input type="checkbox"/> milky <input type="checkbox"/> foamy <input type="checkbox"/> turbid <input type="checkbox"/> light brown <input type="checkbox"/> dark brown <input type="checkbox"/> oily sheen <input type="checkbox"/> orange <input type="checkbox"/> none <input type="checkbox"/> greenish <input type="checkbox"/> other:		10. Water Odor: <input type="checkbox"/> sewage <input type="checkbox"/> chlorine <input type="checkbox"/> fishy <input type="checkbox"/> rotten eggs <input type="checkbox"/> organic <input checked="" type="checkbox"/> other: none																																																																																																			
1. a) Approximate depth of water in stream: <input type="checkbox"/> N/A 4 inches		4. Stream habitats present: <input type="checkbox"/> Pool(s) <input type="checkbox"/> Run(s) <input type="checkbox"/> Riffles(s) <input checked="" type="checkbox"/> N/A		11. Presence of logs or large woody debris in stream: <input checked="" type="checkbox"/> None <input type="checkbox"/> Occasional <input type="checkbox"/> Plentiful		12. Pick the category that best describes the extent to which vegetation shades the stream: <input checked="" type="checkbox"/> 0% <input type="checkbox"/> 50% <input type="checkbox"/> 100% <input type="checkbox"/> 25% <input type="checkbox"/> 75% <input type="checkbox"/> other - %																																																																																																			
b) Approximate width of water flow: <input type="checkbox"/> N/A 15 - 30 ft		5. Stream Velocity: <input type="checkbox"/> fast <input type="checkbox"/> moderate <input type="checkbox"/> slow <input checked="" type="checkbox"/> N/A																																																																																																							
c) Approximate width of stream: (from top of bank to top of bank)		6. Nature of the particles in the stream bottom: <table border="1" style="width:100%; border-collapse: collapse; text-align: center;"> <tr> <td></td> <td>None</td> <td>Little</td> <td>Some</td> <td>Most</td> </tr> <tr> <td>silt/clay/mud</td> <td></td> <td></td> <td></td> <td>X</td> </tr> <tr> <td>sand</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>gravel</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>cobbles (2 - 10" diam.)</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>boulders (> 10" diam.)</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>bedrock</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>			None	Little	Some	Most	silt/clay/mud				X	sand					gravel					cobbles (2 - 10" diam.)					boulders (> 10" diam.)					bedrock					13. Pick the description that best fits the stream bank and the channel (facing upstream): a) Stream bank: <table border="1" style="width:100%; border-collapse: collapse; text-align: center;"> <tr> <td>Left</td> <td></td> <td>Right</td> </tr> <tr> <td></td> <td>Vertical/undercut</td> <td></td> </tr> <tr> <td></td> <td>Steeply sloping (>30°)</td> <td></td> </tr> <tr> <td>X</td> <td>Gradual/No slope (<30°)</td> <td>X</td> </tr> </table>		Left		Right		Vertical/undercut			Steeply sloping (>30°)		X	Gradual/No slope (<30°)	X																																																					
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d) Approximate height of banks (channel depth): left 1 ft right 3 ft		7. Presence of naturally occurring organic material in stream: <input type="checkbox"/> None <input type="checkbox"/> Occasional <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Plentiful		b) Shape of the channel: <input type="checkbox"/> Narrow, Deep <input type="checkbox"/> Wide, Deep <input checked="" type="checkbox"/> Narrow, Shallow <input type="checkbox"/> Wide, Shallow																																																																																																					
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18. Observed Fauna (make note of wildlife deterrents such as bird wires) List <input checked="" type="checkbox"/> Invertebrates butterflies <input type="checkbox"/> Birds <input type="checkbox"/> Mammals <input type="checkbox"/> Reptile/Amphians <input type="checkbox"/> Fish		19. Additional Comments Roadside ditch along Mannheim service road near Wally Park.																																																																																																							
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Stream Characterization		Date: 8/13/2019	Time: 4:15pm	Site: ORD	County: Cook
Field ID: Stream/Ditch		Stream Name: Ditch 30			Investigators: BJH, CBM

Weather in the past 24 hours: <input type="checkbox"/> Storm (heavy rain) <input checked="" type="checkbox"/> Overcast <input type="checkbox"/> Rain (steady rain) <input type="checkbox"/> Clear/Sunny <input type="checkbox"/> Showers (intermittent rain)	3. Circle flow regime: EPHEMERAL <input checked="" type="checkbox"/> PERENNIAL 4. Stream habitats present: <input type="checkbox"/> Pool(s) <input type="checkbox"/> Run(s) <input type="checkbox"/> Riffles(s) <input checked="" type="checkbox"/> N/A 5. Stream Velocity: <input type="checkbox"/> fast <input type="checkbox"/> moderate <input checked="" type="checkbox"/> slow <input type="checkbox"/> N/A	9. Water Appearance: <input type="checkbox"/> clear <input checked="" type="checkbox"/> milky <input type="checkbox"/> foamy <input type="checkbox"/> turbid <input type="checkbox"/> light brown <input type="checkbox"/> dark brown <input type="checkbox"/> oily sheen <input type="checkbox"/> orange <input type="checkbox"/> none <input type="checkbox"/> greenish <input type="checkbox"/> other:																																																																																																																																																							
1. a) Approximate depth of water in stream: <input type="checkbox"/> N/A <input type="checkbox"/> 3-4 ft b) Approximate width of water flow: <input type="checkbox"/> N/A <input type="checkbox"/> 35 ft c) Approximate width of stream: (from top of bank to top of bank) <input type="checkbox"/> 65-70 ft d) Approximate height of banks (channel depth): left <input type="checkbox"/> 1-2 ft right <input type="checkbox"/> 1-2 ft e) Approximate depth of pool(s): <input checked="" type="checkbox"/> N/A	6. Nature of the particles in the stream bottom: <table border="1" style="width:100%; text-align: center;"> <tr> <th></th> <th>None</th> <th>Little</th> <th>Some</th> <th>Most</th> </tr> <tr> <td>silt/clay/mud</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>sand</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>cobbles (2 - 10" diam.)</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>boulders (> 10" diam.)</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>bedrock</td> <td></td> <td></td> <td></td> <td></td> </tr> </table> 7. Presence of naturally occurring organic material in stream: <input type="checkbox"/> None <input type="checkbox"/> Occasional <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Plentiful		None	Little	Some	Most	silt/clay/mud					sand					cobbles (2 - 10" diam.)					boulders (> 10" diam.)					bedrock					10. Water Odor: <input type="checkbox"/> sewage <input type="checkbox"/> chlorine <input type="checkbox"/> fishy <input type="checkbox"/> rotten eggs <input type="checkbox"/> organic <input checked="" type="checkbox"/> other: none																																																																																																																									
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Datasheet entered by:			Last Revised: 09/25																																																																																																																																																						

Stream Characterization

Date: 9/25/2019 Time: 10:55am Site: ORD

County: Cook

Field ID: Stream/Ditch

Stream Name: Ditch 31

Investigators: CBM, BJH

Weather in the past 24 hours: <input type="checkbox"/> Storm (heavy rain) <input type="checkbox"/> Overcast <input checked="" type="checkbox"/> Rain (steady rain) <input checked="" type="checkbox"/> Clear/Sunny <input type="checkbox"/> Showers (intermittent rain)		3. Circle flow regime: <u>EPHEMERAL</u> PERENNIAL <u>INTERMITTENT</u>		9. Water Appearance: <input checked="" type="checkbox"/> clear <input type="checkbox"/> milky <input type="checkbox"/> foamy <input type="checkbox"/> turbid <input type="checkbox"/> light brown <input type="checkbox"/> dark brown <input type="checkbox"/> oily sheen <input type="checkbox"/> orange <input type="checkbox"/> none <input type="checkbox"/> greenish <input type="checkbox"/> other:		10. Water Odor: <input type="checkbox"/> sewage <input type="checkbox"/> chlorine <input type="checkbox"/> fishy <input type="checkbox"/> rotten eggs <input type="checkbox"/> organic <input checked="" type="checkbox"/> other: none																																																																																																																																																																											
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2. Plant Species Adjacent to stream (scientific name): Trees: Understory:		8. Facing upstream, does this stream have <u>tree</u> cover for 50 feet on the: left side <input type="checkbox"/> no right side <input checked="" type="checkbox"/> yes What is the % cover of <u>trees</u> per side of the stream? left side <input type="checkbox"/> 0 % right side <input type="checkbox"/> 5 % Facing upstream, does this stream have <u>shrub</u> cover for 50 feet on the: left side <input type="checkbox"/> no right side <input type="checkbox"/> no What is the % cover of <u>shrubs</u> per side of the stream? Observer initials:		13. Pick the description that best fits the stream bank and the channel (facing upstream): a) Stream bank: <table border="1"> <thead> <tr> <th>Left</th> <th></th> <th>Right</th> </tr> </thead> <tbody> <tr> <td></td> <td>Vertical/undercut</td> <td></td> </tr> <tr> <td>X</td> <td>Steeply sloping (>30°)</td> <td></td> </tr> <tr> <td></td> <td>Gradual/No slope (<30°)</td> <td>X</td> </tr> </tbody> </table> b) Shape of the channel: <input type="checkbox"/> Narrow, Deep <input type="checkbox"/> Wide, Deep <input checked="" type="checkbox"/> Narrow, Shallow <input type="checkbox"/> Wide, Shallow		Left		Right		Vertical/undercut		X	Steeply sloping (>30°)			Gradual/No slope (<30°)	X																																																																																																																																																																
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19. Additional Comments 24" culvert at east end and near intersection		Datasheet entered by:		Last Revised: 09/25																																																																																																																																																																													

Stream Characterization

Date: 9/26/ & 9/27

Time: 6:00pm

Site: ORD

County:

Cook

Field ID: Stream/Ditch

Stream Name:

Ditch 32

Investigators:

CBM, BJH

Weather in the past 24 hours: <input type="checkbox"/> Storm (heavy rain) <input type="checkbox"/> Overcast <input type="checkbox"/> Rain (steady rain) <input checked="" type="checkbox"/> Clear/Sunny <input type="checkbox"/> Showers (intermittent rain)		3. Circle flow regime: <u>EPHEMERAL</u> PERENNIAL <u>INTERMITTENT</u>		9. Water Appearance: <input type="checkbox"/> clear <input type="checkbox"/> milky <input type="checkbox"/> foamy <input type="checkbox"/> turbid <input type="checkbox"/> light brown <input type="checkbox"/> dark brown <input type="checkbox"/> oily sheen <input type="checkbox"/> orange <input type="checkbox"/> none <input checked="" type="checkbox"/> greenish <input type="checkbox"/> other little water		10. Water Odor: <input type="checkbox"/> sewage <input type="checkbox"/> chlorine <input type="checkbox"/> fishy <input type="checkbox"/> rotten eggs <input type="checkbox"/> organic <input checked="" type="checkbox"/> other: none	
1. a) Approximate depth of water in stream: <input type="checkbox"/> N/A <input type="checkbox"/> 0-6 inches		4. Stream habitats present: <input type="checkbox"/> Pool(s) <input type="checkbox"/> Run(s) <input type="checkbox"/> Riffles(s) <input checked="" type="checkbox"/> N/A		11. Presence of logs or large woody debris in stream: <input checked="" type="checkbox"/> None <input type="checkbox"/> Occasional <input type="checkbox"/> Plentiful		12. Pick the category that best describes the extent to which vegetation <u>shades</u> the stream: <input type="checkbox"/> 0% <input checked="" type="checkbox"/> 50% <input type="checkbox"/> 100% <input type="checkbox"/> 25% <input type="checkbox"/> 75% <input type="checkbox"/> other - %	
b) Approximate width of water flow: <input type="checkbox"/> N/A <input type="checkbox"/> 6-8 ft		5. Stream Velocity: <input type="checkbox"/> fast <input type="checkbox"/> moderate <input type="checkbox"/> slow <input checked="" type="checkbox"/> N/A		13. Pick the description that best fits the stream bank and the channel (facing upstream): a) Stream bank: Left <input type="checkbox"/> Vertical/undercut <input type="checkbox"/> Right <input checked="" type="checkbox"/> Steeply sloping (>30°) <input type="checkbox"/> <input type="checkbox"/> Gradual/No slope (<30°) <input checked="" type="checkbox"/>		b) Shape of the channel: <input type="checkbox"/> Narrow, Deep <input type="checkbox"/> Wide, Deep <input checked="" type="checkbox"/> Narrow, Shallow <input type="checkbox"/> Wide, Shallow	
c) Approximate width of stream: (from top of bank to top of bank) <input type="checkbox"/> N/A <input type="checkbox"/> 25 ft		6. Nature of the particles in the stream bottom: silt/clay/mud <input type="checkbox"/> None <input type="checkbox"/> Little <input type="checkbox"/> Some <input checked="" type="checkbox"/> Most sand <input type="checkbox"/> gravel <input type="checkbox"/> cobbles (2 - 10" diam.) <input type="checkbox"/> boulders (> 10" diam.) <input type="checkbox"/> bedrock <input type="checkbox"/>		14. Describe the streamside cover. Check "P" if present, "C" if common: a) Along the water's edge and stream bank only (facing upstream): Left <input type="checkbox"/> P <input type="checkbox"/> C <input checked="" type="checkbox"/> Trees <input checked="" type="checkbox"/> Bushes, Shrubs <input checked="" type="checkbox"/> Tall grasses, forbs <input type="checkbox"/> Lawn, maintained landscape <input type="checkbox"/> Boulders/Rocks/Rip Rap <input type="checkbox"/> Gravel/Sand <input type="checkbox"/> Bare Soil <input type="checkbox"/> Pavement, Structures, Gabions		b) From the top of the streambank out to 50 feet: Left <input type="checkbox"/> P <input type="checkbox"/> C <input checked="" type="checkbox"/> Trees <input type="checkbox"/> Bushes, Shrubs <input type="checkbox"/> Tall grasses, forbs <input checked="" type="checkbox"/> Lawn, maintained landscape <input type="checkbox"/> Boulders/Rocks <input type="checkbox"/> Gravel/Sand <input type="checkbox"/> Bare Soil <input type="checkbox"/> Pavement, Structures	
d) Approximate height of banks (channel depth): left <input type="checkbox"/> 3 ft <input type="checkbox"/> right <input type="checkbox"/> 5 ft		7. Presence of naturally occurring organic material in stream: <input type="checkbox"/> None <input type="checkbox"/> Occasional <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Plentiful		15. In the vicinity of the stream, Check "P" if present, "C" if common: Left <input type="checkbox"/> P <input type="checkbox"/> C <input type="checkbox"/> Natural Streamside plant cover degraded <input type="checkbox"/> Banks collapsed/eroded <input type="checkbox"/> Garbage/junk adjacent to the stream <input type="checkbox"/> Foam or sheen on bank <input checked="" type="checkbox"/> Mud, silt, or sand in or entering the stream <input type="checkbox"/> Garbage/junk in the stream <input type="checkbox"/> Yard waste on bank (clippings, leaves, etc.) <input type="checkbox"/> Livestock in or with unrestricted access <input checked="" type="checkbox"/> Actively discharging pipes <input type="checkbox"/> Other pipes <input type="checkbox"/> Ditches entering stream		16. Ordinary High Water Mark Determination Check "P" if observed; Check "U" if used to determine OHWM P U <input type="checkbox"/> Natural line impressed on the bank <input type="checkbox"/> Shelving <input type="checkbox"/> Changes in the character of soil <input type="checkbox"/> Destruction of terrestrial vegetation <input type="checkbox"/> Presence of litter and debris <input type="checkbox"/> Wracking <input type="checkbox"/> Vegetation matted down; bent, or absent <input type="checkbox"/> Sediment sorting <input type="checkbox"/> Leaf litter disturbed or washed away <input type="checkbox"/> Scour <input type="checkbox"/> Deposition <input type="checkbox"/> Multiple observed flow events <input type="checkbox"/> Bed and banks <input checked="" type="checkbox"/> Water staining <input checked="" type="checkbox"/> Change in plant community	
e) Approximate depth of pool(s): <input checked="" type="checkbox"/> N/A		8. Facing upstream, does this stream have <u>tree</u> cover for 50 feet on the: left side <input checked="" type="checkbox"/> yes <input type="checkbox"/> right side <input type="checkbox"/> no What is the % cover of <u>trees</u> per side of the stream? left side <input type="checkbox"/> 10 % <input type="checkbox"/> right side <input type="checkbox"/> 0 %		17. Waters Type <input checked="" type="checkbox"/> DELINEATE <input type="checkbox"/> TNW <input type="checkbox"/> TNWW <input type="checkbox"/> RPW <input type="checkbox"/> RPWWD		RPWNN NRPW NRPWW ISOLATE UPLAND TNWRPW	

Stream Characterization **Date:** 9/27/2019 **Time:** 9:30am **Site:** ORD **County:** Cook
Field ID: Stream Ditch **Stream Name:** Ditch 33 **Investigators:** CBM, BJH

Weather in the past 24 hours: <input type="checkbox"/> Storm (heavy rain) <input type="checkbox"/> Overcast <input checked="" type="checkbox"/> Rain (steady rain) <input checked="" type="checkbox"/> Clear/Sunny <input type="checkbox"/> Showers (intermittent rain)		3. Circle flow regime: <u>EPHEMERAL</u> PERENNIAL <u>INTERMITTENT</u>		9. Water Appearance: <input checked="" type="checkbox"/> clear <input type="checkbox"/> milky <input type="checkbox"/> foamy <input type="checkbox"/> turbid <input type="checkbox"/> light brown <input type="checkbox"/> dark brown <input type="checkbox"/> oily sheen <input type="checkbox"/> orange <input type="checkbox"/> none <input type="checkbox"/> greenish <input type="checkbox"/> other:		10. Water Odor: <input type="checkbox"/> sewage <input type="checkbox"/> chlorine <input type="checkbox"/> fishy <input type="checkbox"/> rotten eggs <input type="checkbox"/> organic <input checked="" type="checkbox"/> other: none																																																																																																																																																			
1. a) Approximate depth of water in stream: <input type="checkbox"/> N/A 2 inches b) Approximate width of water flow: <input type="checkbox"/> N/A 6 ft c) Approximate width of stream: (from top of bank to top of bank) 25 ft d) Approximate height of banks (channel depth): left 6 ft right 16 ft e) Approximate depth of pool(s): <input checked="" type="checkbox"/> N/A		4. Stream habitats present: <input type="checkbox"/> Pool(s) <input type="checkbox"/> Run(s) <input type="checkbox"/> Riffles(s) <input checked="" type="checkbox"/> N/A 5. Stream Velocity: <input type="checkbox"/> fast <input type="checkbox"/> moderate <input type="checkbox"/> slow <input checked="" type="checkbox"/> N/A 6. Nature of the particles in the stream bottom: <table border="1" style="width:100%; text-align: center;"> <tr> <th></th> <th>None</th> <th>Little</th> <th>Some</th> <th>Most</th> </tr> <tr> <td>silt/clay/mud</td> <td></td> <td></td> <td></td> <td>X</td> </tr> <tr> <td>sand</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>gravel</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>cobbles (2 - 10" diam.)</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>boulders (> 10" diam.)</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>bedrock</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>			None	Little	Some	Most	silt/clay/mud				X	sand					gravel					cobbles (2 - 10" diam.)					boulders (> 10" diam.)					bedrock					11. Presence of logs or large woody debris in stream: <input checked="" type="checkbox"/> None <input type="checkbox"/> Occasional <input type="checkbox"/> Plentiful 12. Pick the category that best describes the extent to which vegetation shades the stream: <input type="checkbox"/> 0% <input checked="" type="checkbox"/> 50% <input type="checkbox"/> 100% <input type="checkbox"/> 25% <input type="checkbox"/> 75% <input type="checkbox"/> other - %																																																																																																																		
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2. Plant Species Adjacent to stream (scientific name): Trees: <i>Rhamnus cathartica</i> Understory: <i>Solidago sempervirens,</i> <i>Typha angustifolia</i>		7. Presence of naturally occurring organic material in stream: <input type="checkbox"/> None <input type="checkbox"/> Occasional <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Plentiful 8. Facing upstream, does this stream have <u>tree</u> cover for 50 feet on the: left side <u>yes</u> right side <u>no</u> What is the % cover of <u>trees</u> per side of the stream? left side <u>50</u> % right side <u>0</u> % Facing upstream, does this stream have <u>shrub</u> cover for 50 feet on the: left side <u>no</u> right side <u>no</u> What is the % cover of <u>shrubs</u> per side of the stream? Observer initials:		13. Pick the description that best fits the stream bank and the channel (facing upstream): a) Stream bank: <table border="1" style="width:100%; text-align: center;"> <tr> <th>Left</th> <th></th> <th>Right</th> </tr> <tr> <td></td> <td>Vertical/undercut</td> <td></td> </tr> <tr> <td></td> <td>Steeply sloping (>30°)</td> <td></td> </tr> <tr> <td>X</td> <td>Gradual/No slope (<30°)</td> <td>X</td> </tr> </table> b) Shape of the channel: <input type="checkbox"/> Narrow, Deep <input type="checkbox"/> Wide, Deep <input checked="" type="checkbox"/> Narrow, Shallow <input type="checkbox"/> Wide, Shallow		Left		Right		Vertical/undercut			Steeply sloping (>30°)		X	Gradual/No slope (<30°)	X																																																																																																																																								
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18. Observed Fauna (make note of wildlife deterrents such as bird wires) List <input checked="" type="checkbox"/> Invertebrates bees, butterflies <input type="checkbox"/> Birds <input type="checkbox"/> Mammals <input type="checkbox"/> Reptile/Amphians <input type="checkbox"/> Fish				19. Additional Comments 30" culvert on left side discharging into ditch; 12" side culvert on right 30" culvert at west end																																																																																																																																																					
Datasheet entered by:				Last Revised: 09/25																																																																																																																																																					

Stream Characterization **Date:** 9/17/2019 **Time:** 4:10pm **Site:** ORD **County:** Cook
Field ID: Stream/Ditch **Stream Name:** Ditch 34 **Investigators:** CBM, BJH

Weather in the past 24 hours: <input type="checkbox"/> Storm (heavy rain) <input type="checkbox"/> Overcast <input checked="" type="checkbox"/> Rain (steady rain) <input checked="" type="checkbox"/> Clear/Sunny <input type="checkbox"/> Showers (intermittent rain)		3. Circle flow regime: <u>EPHEMERAL</u> PERENNIAL <u>INTERMITTENT</u>		9. Water Appearance: <input type="checkbox"/> clear <input type="checkbox"/> milky <input type="checkbox"/> foamy <input type="checkbox"/> turbid <input type="checkbox"/> light brown <input type="checkbox"/> dark brown <input type="checkbox"/> oily sheen <input type="checkbox"/> orange <input type="checkbox"/> none <input type="checkbox"/> greenish <input checked="" type="checkbox"/> X <input type="checkbox"/> other:		10. Water Odor: <input type="checkbox"/> sewage <input type="checkbox"/> chlorine <input type="checkbox"/> fishy <input type="checkbox"/> rotten eggs <input type="checkbox"/> organic <input checked="" type="checkbox"/> other: none																																																																																																						
1. a) Approximate depth of water in stream: <input type="checkbox"/> N/A		4. Stream habitats present: <input type="checkbox"/> Pool(s) <input type="checkbox"/> Run(s) <input type="checkbox"/> Riffles(s) <input checked="" type="checkbox"/> N/A		11. Presence of logs or large woody debris in stream: <input checked="" type="checkbox"/> None <input type="checkbox"/> Occasional <input type="checkbox"/> Plentiful		12. Pick the category that best describes the extent to which vegetation shades the stream: <input type="checkbox"/> 0% <input type="checkbox"/> 50% <input checked="" type="checkbox"/> 100% <input type="checkbox"/> 25% <input type="checkbox"/> 75% <input type="checkbox"/> other - %																																																																																																						
b) Approximate width of water flow: <input type="checkbox"/> N/A		5. Stream Velocity: <input type="checkbox"/> fast <input type="checkbox"/> moderate <input checked="" type="checkbox"/> slow <input type="checkbox"/> N/A		13. Pick the description that best fits the stream bank and the channel (facing upstream): a) Stream bank: <table style="width:100%;"> <tr> <td style="width:33%;">Left</td> <td style="width:33%; text-align: center;">Vertical/undercut</td> <td style="width:33%;">Right</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td style="text-align: center;">Steeply sloping (>30°)</td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/></td> <td style="text-align: center;">Gradual/No slope (<30°)</td> <td><input checked="" type="checkbox"/></td> </tr> </table>		Left	Vertical/undercut	Right	<input checked="" type="checkbox"/>	Steeply sloping (>30°)	<input type="checkbox"/>	<input type="checkbox"/>	Gradual/No slope (<30°)	<input checked="" type="checkbox"/>	b) Shape of the channel: <input type="checkbox"/> Narrow, Deep <input type="checkbox"/> Wide, Deep <input checked="" type="checkbox"/> Narrow, Shallow <input type="checkbox"/> Wide, Shallow																																																																																													
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c) Approximate width of stream: (from top of bank to top of bank) left: 10 inches right: 12 inches		6. Nature of the particles in the stream bottom: <table style="width:100%; text-align: center;"> <tr> <th></th> <th>None</th> <th>Little</th> <th>Some</th> <th>Most</th> </tr> <tr> <td>silt/clay/mud</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>sand</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>gravel</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>cobbles (2 - 10" diam.)</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>boulders (> 10" diam.)</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>bedrock</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>			None	Little	Some	Most	silt/clay/mud					sand					gravel					cobbles (2 - 10" diam.)					boulders (> 10" diam.)					bedrock					14. Describe the streamside cover. Check "P" if present, "C" if common a) Along the water's edge and stream bank only (facing upstream): <table style="width:100%;"> <tr> <td style="width:33%;">Left</td> <td style="width:33%;"></td> <td style="width:33%;">Right</td> </tr> <tr> <td>P C</td> <td></td> <td>P C</td> </tr> <tr><td><input type="checkbox"/></td><td></td><td><input type="checkbox"/></td></tr> <tr><td><input type="checkbox"/></td><td>Trees</td><td><input type="checkbox"/></td></tr> <tr><td><input type="checkbox"/></td><td>Bushes, Shrubs</td><td><input type="checkbox"/></td></tr> <tr><td><input type="checkbox"/></td><td>Tall grasses, forbs</td><td><input checked="" type="checkbox"/></td></tr> <tr><td><input type="checkbox"/></td><td>Lawn, maintained landscape</td><td><input checked="" type="checkbox"/></td></tr> <tr><td><input type="checkbox"/></td><td>Boulders/Rocks/Rip Rap</td><td></td></tr> <tr><td><input type="checkbox"/></td><td>Gravel/Sand</td><td></td></tr> <tr><td><input type="checkbox"/></td><td>Bare Soil</td><td></td></tr> <tr><td><input checked="" type="checkbox"/></td><td>Pavement, Structures, Gabions</td><td></td></tr> </table>		Left		Right	P C		P C	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	Trees	<input type="checkbox"/>	<input type="checkbox"/>	Bushes, Shrubs	<input type="checkbox"/>	<input type="checkbox"/>	Tall grasses, forbs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Lawn, maintained landscape	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Boulders/Rocks/Rip Rap		<input type="checkbox"/>	Gravel/Sand		<input type="checkbox"/>	Bare Soil		<input checked="" type="checkbox"/>	Pavement, Structures, Gabions		15. In the vicinity of the stream. Check "P" if present, "C" if common: <table style="width:100%;"> <tr> <td style="width:33%;">Left</td> <td style="width:33%;"></td> <td style="width:33%;">Right</td> </tr> <tr> <td>P C</td> <td></td> <td>P C</td> </tr> <tr><td><input type="checkbox"/></td><td></td><td><input type="checkbox"/></td></tr> <tr><td><input type="checkbox"/></td><td>Trees</td><td><input type="checkbox"/></td></tr> <tr><td><input type="checkbox"/></td><td>Bushes, Shrubs</td><td><input type="checkbox"/></td></tr> <tr><td><input type="checkbox"/></td><td>Tall grasses, forbs</td><td><input checked="" type="checkbox"/></td></tr> <tr><td><input type="checkbox"/></td><td>Lawn, maintained landscape</td><td><input checked="" type="checkbox"/></td></tr> <tr><td><input type="checkbox"/></td><td>Boulders/Rocks</td><td></td></tr> <tr><td><input type="checkbox"/></td><td>Gravel/Sand</td><td></td></tr> <tr><td><input type="checkbox"/></td><td>Bare Soil</td><td></td></tr> <tr><td><input checked="" type="checkbox"/></td><td>Pavement, Structures</td><td></td></tr> </table>		Left		Right	P C		P C	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	Trees	<input type="checkbox"/>	<input type="checkbox"/>	Bushes, Shrubs	<input type="checkbox"/>	<input type="checkbox"/>	Tall grasses, forbs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Lawn, maintained landscape	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Boulders/Rocks		<input type="checkbox"/>	Gravel/Sand		<input type="checkbox"/>	Bare Soil		<input checked="" type="checkbox"/>	Pavement, Structures	
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d) Approximate height of banks (channel depth): left: 10 inches right: 12 inches		7. Presence of naturally occurring organic material in stream: <input type="checkbox"/> None <input type="checkbox"/> Occasional <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Plentiful		16. Ordinary High Water Mark Determination Check "P" if observed; Check "U" if used to determine OHWM <table style="width:100%;"> <tr> <td style="width:33%;">P U</td> <td style="width:33%;"></td> <td style="width:33%;"></td> </tr> <tr><td><input type="checkbox"/></td><td></td><td></td></tr> <tr><td><input type="checkbox"/></td><td>Natural line impressed on the bank</td><td></td></tr> <tr><td><input type="checkbox"/></td><td>Shelving</td><td></td></tr> <tr><td><input type="checkbox"/></td><td>Changes in the character of soil</td><td></td></tr> <tr><td><input type="checkbox"/></td><td>Destruction of terrestrial vegetation</td><td></td></tr> <tr><td><input type="checkbox"/></td><td>Presence of litter and debris</td><td></td></tr> <tr><td><input type="checkbox"/></td><td>Wracking</td><td></td></tr> <tr><td><input type="checkbox"/></td><td>Vegetation matted down; bent, or absent</td><td></td></tr> <tr><td><input type="checkbox"/></td><td>Sediment sorting</td><td></td></tr> <tr><td><input type="checkbox"/></td><td>Leaf litter disturbed or washed away</td><td></td></tr> <tr><td><input type="checkbox"/></td><td>Scour</td><td></td></tr> <tr><td><input type="checkbox"/></td><td>Deposition</td><td></td></tr> <tr><td><input type="checkbox"/></td><td>Multiple observed flow events</td><td></td></tr> <tr><td><input type="checkbox"/></td><td>Bed and banks</td><td></td></tr> <tr><td><input type="checkbox"/></td><td>Water staining</td><td></td></tr> <tr><td><input checked="" type="checkbox"/></td><td>Change in plant community</td><td></td></tr> </table>		P U			<input type="checkbox"/>			<input type="checkbox"/>	Natural line impressed on the bank		<input type="checkbox"/>	Shelving		<input type="checkbox"/>	Changes in the character of soil		<input type="checkbox"/>	Destruction of terrestrial vegetation		<input type="checkbox"/>	Presence of litter and debris		<input type="checkbox"/>	Wracking		<input type="checkbox"/>	Vegetation matted down; bent, or absent		<input type="checkbox"/>	Sediment sorting		<input type="checkbox"/>	Leaf litter disturbed or washed away		<input type="checkbox"/>	Scour		<input type="checkbox"/>	Deposition		<input type="checkbox"/>	Multiple observed flow events		<input type="checkbox"/>	Bed and banks		<input type="checkbox"/>	Water staining		<input checked="" type="checkbox"/>	Change in plant community																																																					
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e) Approximate depth of pool(s): <input checked="" type="checkbox"/> N/A		8. Facing upstream, does this stream have <u>tree</u> cover for 50 feet on the: left side: no right side: no What is the % cover of <u>trees</u> per side of the stream? left side: 0 % right side: 0 %		17. Waters Type <table style="width:100%;"> <tr> <td style="width:33%;"><input checked="" type="checkbox"/></td> <td style="width:33%;">DELINEATE</td> <td style="width:33%;"></td> </tr> <tr><td><input type="checkbox"/></td><td>TNW</td><td></td></tr> <tr><td><input type="checkbox"/></td><td>TNWW</td><td></td></tr> <tr><td><input type="checkbox"/></td><td>RPW</td><td></td></tr> <tr><td><input type="checkbox"/></td><td>RPVWD</td><td></td></tr> </table>		<input checked="" type="checkbox"/>	DELINEATE		<input type="checkbox"/>	TNW		<input type="checkbox"/>	TNWW		<input type="checkbox"/>	RPW		<input type="checkbox"/>	RPVWD																																																																																									
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Understory: <i>Typha angustifolia, Phragmites australis, Solidago sempervirens, Lythrum salicaria</i>		8. Facing upstream, does this stream have <u>shrub</u> cover for 50 feet on the: left side: no right side: no What is the % cover of <u>shrubs</u> per side of the stream? 0 0 Observer initials:		18. Observed Fauna (make note of wildlife deterrents such as bird wires) List <input type="checkbox"/> Invertebrates <input type="checkbox"/> Birds <input type="checkbox"/> Mammals <input type="checkbox"/> Reptile/Amphians <input type="checkbox"/> Fish																																																																																																								
19. Additional Comments Phragmites dominated ditch behind parking lot.		Datasheet entered by:		Last Revised: 09/25																																																																																																								

Stream Characterization **Date:** 9/19/2019 **Time:** 8:15am **Site:** ORD **County:** Cook
Field ID: Stream/Ditch **Stream Name:** Ditch 35 **Investigators:** CBM, BJH

Weather in the past 24 hours: <input type="checkbox"/> Storm (heavy rain) <input type="checkbox"/> Overcast <input checked="" type="checkbox"/> Rain (steady rain) <input checked="" type="checkbox"/> Clear/Sunny <input type="checkbox"/> Showers (intermittent rain)		3. Circle flow regime: EPHEMERAL PERENNIAL INTERMITTENT		9. Water Appearance: <input type="checkbox"/> clear <input type="checkbox"/> milky <input type="checkbox"/> foamy <input type="checkbox"/> turbid <input checked="" type="checkbox"/> light brown <input type="checkbox"/> dark brown <input type="checkbox"/> oily sheen <input type="checkbox"/> orange <input type="checkbox"/> none <input type="checkbox"/> greenish <input type="checkbox"/> other:		10. Water Odor: <input type="checkbox"/> sewage <input type="checkbox"/> chlorine <input type="checkbox"/> fishy <input type="checkbox"/> rotten eggs <input type="checkbox"/> organic <input checked="" type="checkbox"/> other: none																																																																																																																																																																																																																																																			
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14. Describe the streamside cover. Check "P" if present, "C" if common a) Along the water's edge and stream bank only (facing upstream): <table border="1"> <tr> <td>Left</td> <td>P</td> <td>C</td> <td></td> <td></td> <td>Right</td> <td>P</td> <td>C</td> <td></td> <td></td> </tr> <tr> <td></td> <td><input checked="" type="checkbox"/></td> <td></td> <td></td> <td></td> <td></td> <td><input checked="" type="checkbox"/></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td></td> <td></td> <td></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>Trees</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>Bushes, Shrubs</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>Tall grasses, forbs</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>Lawn, maintained landscape</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>Boulders/Rocks/Rip Rap</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>Gravel/Sand</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>Bare Soil</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>Pavement, Structures, Gabions</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>		Left	P	C			Right	P	C				<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						Trees										Bushes, Shrubs										Tall grasses, forbs										Lawn, maintained landscape										Boulders/Rocks/Rip Rap										Gravel/Sand										Bare Soil										Pavement, Structures, Gabions							8. Facing upstream, does this stream have <u>tree</u> cover for 50 feet on the: left side <u>no</u> right side <u>no</u> What is the % cover of <u>trees</u> per side of the stream? left side <u>0</u> % right side <u>0</u> % Facing upstream, does this stream have <u>shrub</u> cover for 50 feet on the: left side <u>yes</u> right side <u>yes</u> What is the % cover of <u>shrubs</u> per side of the stream? 5% 5% Observer initials:		16. Ordinary High Water Mark Determination Check "P" if observed; Check "U" if used to determine OHWM <table border="1"> <tr> <td>P</td> <td>U</td> <td></td> <td></td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td>Natural line impressed on the bank</td> <td></td> </tr> <tr> <td></td> <td></td> <td>Shelving</td> <td></td> </tr> <tr> <td></td> <td></td> <td>Changes in the character of soil</td> <td></td> </tr> <tr> <td></td> <td></td> <td>Destruction of terrestrial vegetation</td> <td></td> </tr> <tr> <td></td> <td></td> <td>Presence of litter and debris</td> <td></td> </tr> <tr> <td></td> <td></td> <td>Wracking</td> <td></td> </tr> <tr> <td></td> <td></td> <td>Vegetation matted down; bent, or absent</td> <td></td> </tr> <tr> <td></td> <td></td> <td>Sediment sorting</td> <td></td> </tr> <tr> <td></td> <td></td> <td>Leaf litter disturbed or washed away</td> <td></td> </tr> <tr> <td></td> <td></td> <td>Scour</td> <td></td> </tr> <tr> <td></td> <td></td> <td>Deposition</td> <td></td> </tr> <tr> <td></td> <td></td> <td>Multiple observed flow events</td> <td></td> </tr> <tr> <td></td> <td></td> <td>Bed and banks</td> <td></td> </tr> <tr> <td></td> <td></td> <td>Water staining</td> <td></td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td>Change in plant community</td> <td></td> </tr> </table>		P	U			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Natural line impressed on the bank				Shelving				Changes in the character of soil				Destruction of terrestrial vegetation				Presence of litter and debris				Wracking				Vegetation matted down; bent, or absent				Sediment sorting				Leaf litter disturbed or washed away				Scour				Deposition				Multiple observed flow events				Bed and banks				Water staining		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Change in plant community																																																																							
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18. Observed Fauna (make note of wildlife deterrents such as bird wires) List <input type="checkbox"/> Invertebrates <input type="checkbox"/> Birds <input type="checkbox"/> Mammals <input type="checkbox"/> Reptile/Amphians <input type="checkbox"/> Fish		19. Additional Comments flows toward Crystal Creek		Datasheet entered by:		Last Revised: 09/25																																																																																																																																																																																																																																																			

Stream Characterization **Date:** 9/19/2019 **Time:** 8:15am **Site:** ORD **County:** Cook
Field ID: Stream Ditch **Stream Name:** Ditch 36 **Investigators:** CBM, BJH

Weather in the past 24 hours: <input type="checkbox"/> Storm (heavy rain) <input type="checkbox"/> Overcast <input checked="" type="checkbox"/> Rain (steady rain) <input checked="" type="checkbox"/> Clear/Sunny <input type="checkbox"/> Showers (intermittent rain)		3. Circle flow regime: <u>EPHEMERAL</u> PERENNIAL <input checked="" type="checkbox"/> <u>INTERMITTENT</u>		9. Water Appearance: <input checked="" type="checkbox"/> clear <input type="checkbox"/> milky <input type="checkbox"/> foamy <input type="checkbox"/> turbid <input type="checkbox"/> light brown <input type="checkbox"/> dark brown <input type="checkbox"/> oily sheen <input type="checkbox"/> orange <input type="checkbox"/> none <input type="checkbox"/> greenish <input type="checkbox"/> other:		10. Water Odor: <input type="checkbox"/> sewage <input type="checkbox"/> chlorine <input type="checkbox"/> fishy <input type="checkbox"/> rotten eggs <input type="checkbox"/> organic <input checked="" type="checkbox"/> other: none																																																																																																																																																	
1. a) Approximate depth of water in stream: <input type="checkbox"/> N/A 3-4 inches b) Approximate width of water flow: <input type="checkbox"/> N/A 10 ft c) Approximate width of stream: (from top of bank to top of bank) 45 ft d) Approximate height of banks (channel depth): left 15 ft right 15 ft e) Approximate depth of pool(s): <input checked="" type="checkbox"/> N/A		4. Stream habitats present: <input type="checkbox"/> Pool(s) <input type="checkbox"/> Run(s) <input type="checkbox"/> Riffles(s) <input checked="" type="checkbox"/> N/A 5. Stream Velocity: <input type="checkbox"/> fast <input type="checkbox"/> moderate <input checked="" type="checkbox"/> slow <input type="checkbox"/> N/A 6. Nature of the particles in the stream bottom: <table border="1" style="width:100%; text-align: center;"> <tr> <th></th> <th>None</th> <th>Little</th> <th>Some</th> <th>Most</th> </tr> <tr> <td>silt/clay/mud</td> <td></td> <td></td> <td></td> <td>X</td> </tr> <tr> <td>sand</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>gravel</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>cobbles (2 - 10" diam.)</td> <td></td> <td></td> <td>X</td> <td></td> </tr> <tr> <td>boulders (> 10" diam.)</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>bedrock</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>			None	Little	Some	Most	silt/clay/mud				X	sand					gravel					cobbles (2 - 10" diam.)			X		boulders (> 10" diam.)					bedrock					11. Presence of logs or large woody debris in stream: <input checked="" type="checkbox"/> None <input type="checkbox"/> Occasional <input type="checkbox"/> Plentiful 12. Pick the category that best describes the extent to which vegetation shades the stream: <input type="checkbox"/> 0% <input type="checkbox"/> 50% <input type="checkbox"/> 100% <input checked="" type="checkbox"/> 25% <input type="checkbox"/> 75% <input type="checkbox"/> other - %																																																																																																																
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Stream Characterization **Date:** 9/27/2019 **Time:** **Site:** ORD **County:** DuPage
Field ID: Stream Ditch **Stream Name:** Ditch 37 **Investigators:** BJH

<p>Weather in the past 24 hours:</p> <p><input type="checkbox"/> Storm (heavy rain) <input checked="" type="checkbox"/> Overcast</p> <p><input type="checkbox"/> Rain (steady rain) <input type="checkbox"/> Clear/Sunny</p> <p><input type="checkbox"/> Showers (intermittent rain)</p>	<p>3. Circle flow regime: <u>EPHEMERAL</u> PERENNIAL</p> <p>4. Stream habitats present:</p> <p><input type="checkbox"/> Pool(s) <input type="checkbox"/> Run(s)</p> <p><input type="checkbox"/> Riffles(s) <input checked="" type="checkbox"/> N/A</p>	<p>9. Water Appearance:</p> <p><input type="checkbox"/> clear <input type="checkbox"/> sewage</p> <p><input type="checkbox"/> milky <input type="checkbox"/> chlorine</p> <p><input type="checkbox"/> foamy <input type="checkbox"/> fishy</p> <p><input type="checkbox"/> turbid <input type="checkbox"/> rotten eggs</p> <p><input type="checkbox"/> light brown <input type="checkbox"/> organic</p> <p><input type="checkbox"/> dark brown <input checked="" type="checkbox"/> other: none</p> <p><input type="checkbox"/> oily sheen <input type="checkbox"/> orange <input type="checkbox"/> greenish <input checked="" type="checkbox"/> other:</p>																																																																																																				
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Stream Characterization **Date:** 9/26/2019 **Time:** 5:05pm **Site:** ORD **County:** Cook
Field ID: Stream/Ditch **Stream Name:** Ditch 38 **Investigators:** CBM, BJH

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Facing upstream, does this stream have <u>tree</u> cover for 50 feet on the: left side <input type="text" value="no"/> right side <input type="text" value="no"/></p> <p>What is the % cover of <u>trees</u> per side of the stream? left side <input type="text" value="0"/> % right side <input type="text" value="0"/> %</p> <p>Facing upstream, does this stream have <u>shrub</u> cover for 50 feet on the: left side <input type="text" value="no"/> right side <input type="text" value="no"/></p> <p>What is the % cover of <u>shrubs</u> per side of the stream? Observer initials: <input type="text"/></p>	<input type="checkbox"/> Pool(s)	<input type="checkbox"/> Run(s)	<input type="checkbox"/> Riffles(s)	<input checked="" type="checkbox"/> N/A		None	Little	Some	Most	silt/clay/mud					sand					gravel					cobbles (2 - 10" diam.)					boulders (> 10" diam.)					bedrock					<p>9. 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Presence of logs or large woody debris in stream: <input checked="" type="checkbox"/> None <input type="checkbox"/> Occasional <input type="checkbox"/> Plentiful</p> <p>12. Pick the category that best describes the extent to which vegetation <u>shades</u> the stream: <input type="checkbox"/> 0% <input type="checkbox"/> 50% <input type="checkbox"/> 100% <input type="checkbox"/> 25% <input checked="" type="checkbox"/> 75% <input type="checkbox"/> other - %</p> <p>13. Pick the description that best fits the stream bank and the channel (facing upstream):</p> <p>a) Stream bank:</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:30%;">Left</td> <td style="width:40%;">Vertical/undercut</td> <td style="width:30%;">Right</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td>Steeply sloping (>30°)</td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/></td> <td>Gradual/No slope (<30°)</td> <td><input type="checkbox"/></td> </tr> </table> <p>b) Shape of the channel:</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:30%;">Narrow, Deep</td> <td style="width:30%;">Wide, Deep</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Narrow, Shallow</td> <td>Wide, Shallow</td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </table> <p>16. Ordinary High Water Mark Determination</p> <p>Check "P" if observed; Check "U" if used to determine OHWM</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:10%;">P</td> <td style="width:10%;">U</td> <td style="width:80%;">Natural line impressed on the bank</td> </tr> <tr><td> </td><td> </td><td>Shelving</td></tr> <tr><td> </td><td> </td><td>Changes in the character of soil</td></tr> <tr><td> </td><td> </td><td>Destruction of terrestrial vegetation</td></tr> <tr><td> </td><td> </td><td>Presence of litter and debris</td></tr> <tr><td> </td><td> </td><td>Wracking</td></tr> <tr><td> </td><td> </td><td>Vegetation matted down; bent, or absent</td></tr> <tr><td> </td><td> </td><td>Sediment sorting</td></tr> <tr><td> </td><td> </td><td>Leaf litter disturbed or washed away</td></tr> <tr><td> </td><td> </td><td>Scour</td></tr> <tr><td> </td><td> </td><td>Deposition</td></tr> <tr><td> </td><td> </td><td>Multiple observed flow events</td></tr> <tr><td> </td><td> </td><td>Bed and banks</td></tr> <tr><td> </td><td> </td><td>Water staining</td></tr> <tr><td> </td><td> </td><td>Change in plant community</td></tr> </table> <p>17. Waters Type</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:10%;"><input checked="" type="checkbox"/></td> <td style="width:60%;">DELINEATE</td> <td style="width:30%;">RPWNN</td> </tr> <tr><td> </td><td>TNW</td><td>NRPW</td></tr> <tr><td> </td><td>TNWW</td><td>NRPWW</td></tr> <tr><td> </td><td>RPW</td><td>ISOLATE</td></tr> <tr><td> </td><td>RPWWD</td><td>UPLAND</td></tr> <tr><td> </td><td> </td><td>TNWRPW</td></tr> </table> <p>18. Observed Fauna (make note of wildlife deterrents such as bird wires)</p> <p>List</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr><td><input type="checkbox"/></td><td>Invertebrates</td><td> </td></tr> <tr><td><input type="checkbox"/></td><td>Birds</td><td> </td></tr> <tr><td><input type="checkbox"/></td><td>Mammals</td><td> </td></tr> <tr><td><input type="checkbox"/></td><td>Reptile/Amphians</td><td> </td></tr> <tr><td><input type="checkbox"/></td><td>Fish</td><td> </td></tr> </table> <p>19. Additional Comments</p> <p>solid phragmites filled ditch with culverts</p> <p>right side: 2 36" culverts, 1 48" culvert with grates from stockpile to north</p> <p>left side: quad 30" round culverts with wall</p> <p>Datasheet entered by: <input type="text"/> Last Revised: 09/25</p>	<input checked="" type="checkbox"/> clear	<input type="checkbox"/> milky	<input type="checkbox"/> foamy	<input type="checkbox"/> turbid	<input type="checkbox"/> light brown	<input type="checkbox"/> dark brown	<input type="checkbox"/> oily sheen	<input type="checkbox"/> orange	<input type="checkbox"/> greenish	<input type="checkbox"/> other:	Left	Vertical/undercut	Right	<input checked="" type="checkbox"/>	Steeply sloping (>30°)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Gradual/No slope (<30°)	<input type="checkbox"/>	Narrow, Deep	Wide, Deep	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Narrow, Shallow	Wide, Shallow	<input type="checkbox"/>	<input type="checkbox"/>	P	U	Natural line impressed on the bank			Shelving			Changes in the character of soil			Destruction of terrestrial vegetation			Presence of litter and debris			Wracking			Vegetation matted down; bent, or absent			Sediment sorting			Leaf litter disturbed or washed away			Scour			Deposition			Multiple observed flow events			Bed and banks			Water staining			Change in plant community	<input checked="" type="checkbox"/>	DELINEATE	RPWNN		TNW	NRPW		TNWW	NRPWW		RPW	ISOLATE		RPWWD	UPLAND			TNWRPW	<input type="checkbox"/>	Invertebrates		<input type="checkbox"/>	Birds		<input type="checkbox"/>	Mammals		<input type="checkbox"/>	Reptile/Amphians		<input type="checkbox"/>	Fish	
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Stream Characterization **Date:** 8/30/2019 **Time:** 1:30pm **Site:** ORD **County:** Cook
Field ID: Stream/Ditch **Stream Name:** Ditch 39 **Investigators:** CBM, BJH

Weather in the past 24 hours: <input type="checkbox"/> Storm (heavy rain) <input type="checkbox"/> Overcast <input checked="" type="checkbox"/> Rain (steady rain) <input checked="" type="checkbox"/> Clear/Sunny <input type="checkbox"/> Showers (intermittent rain)		3. Circle flow regime: <u>EPHEMERAL</u> PERENNIAL <u>INTERMITTENT</u>		9. Water Appearance: <input type="checkbox"/> clear <input type="checkbox"/> milky <input type="checkbox"/> foamy <input type="checkbox"/> turbid <input type="checkbox"/> light brown <input type="checkbox"/> dark brown <input type="checkbox"/> oily sheen <input type="checkbox"/> orange <input type="checkbox"/> none <input checked="" type="checkbox"/> greenish <input checked="" type="checkbox"/> other:		10. Water Odor: <input type="checkbox"/> sewage <input type="checkbox"/> chlorine <input type="checkbox"/> fishy <input type="checkbox"/> rotten eggs <input type="checkbox"/> organic <input checked="" type="checkbox"/> other: none																																																																																																																																																																											
1. a) Approximate depth of water in stream: <input type="checkbox"/> N/A 4-6 inches b) Approximate width of water flow: <input type="checkbox"/> N/A 15 ft c) Approximate width of stream: (from top of bank to top of bank) 35 ft d) Approximate height of banks (channel depth): left 5-15 ft right 3-10 ft e) Approximate depth of pool(s): <input checked="" type="checkbox"/> N/A		4. Stream habitats present: <input type="checkbox"/> Pool(s) <input type="checkbox"/> Run(s) <input type="checkbox"/> Riffles(s) <input checked="" type="checkbox"/> N/A 5. Stream Velocity: <input type="checkbox"/> fast <input type="checkbox"/> moderate <input type="checkbox"/> slow <input checked="" type="checkbox"/> N/A 6. Nature of the particles in the stream bottom: <table border="1"> <thead> <tr> <th></th> <th>None</th> <th>Little</th> <th>Some</th> <th>Most</th> </tr> </thead> <tbody> <tr> <td>silt/clay/mud</td> <td></td> <td></td> <td></td> <td>X</td> </tr> <tr> <td>sand</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>gravel</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>cobbles (2 - 10" diam.)</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>boulders (> 10" diam.)</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>bedrock</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>			None	Little	Some	Most	silt/clay/mud				X	sand					gravel					cobbles (2 - 10" diam.)					boulders (> 10" diam.)					bedrock					11. Presence of logs or large woody debris in stream: <input checked="" type="checkbox"/> None <input type="checkbox"/> Occasional <input type="checkbox"/> Plentiful 12. Pick the category that best describes the extent to which vegetation shades the stream: <input type="checkbox"/> 0% <input type="checkbox"/> 50% <input checked="" type="checkbox"/> 100% <input type="checkbox"/> 25% <input type="checkbox"/> 75% <input type="checkbox"/> other - %																																																																																																																																										
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Stream Characterization **Date:** 8/19/2019 **Time:** 3:30pm **Site:** ORD **County:** Cook
Field ID: Stream/Ditch **Stream Name:** Ditch 40 **Investigators:** CBM

Weather in the past 24 hours: <input type="checkbox"/> Storm (heavy rain) <input type="checkbox"/> Overcast <input checked="" type="checkbox"/> Rain (steady rain) <input checked="" type="checkbox"/> Clear/Sunny <input type="checkbox"/> Showers (intermittent rain)		3. Circle flow regime: EPHEMERAL <u>PERENNIAL</u> 4. Stream habitats present: <input type="checkbox"/> Pool(s) <input type="checkbox"/> Run(s) <input type="checkbox"/> Riffles(s) <input checked="" type="checkbox"/> N/A		9. Water Appearance: <input type="checkbox"/> clear <input checked="" type="checkbox"/> sewage <input checked="" type="checkbox"/> milky <input type="checkbox"/> chlorine <input type="checkbox"/> foamy <input type="checkbox"/> fishy <input type="checkbox"/> turbid <input type="checkbox"/> rotten eggs <input type="checkbox"/> light brown <input type="checkbox"/> organic <input type="checkbox"/> dark brown <input type="checkbox"/> other: <input type="checkbox"/> oily sheen <input type="checkbox"/> none <input type="checkbox"/> orange <input type="checkbox"/> none <input type="checkbox"/> greenish <input type="checkbox"/> other:		10. Water Odor: <input checked="" type="checkbox"/> sewage <input type="checkbox"/> chlorine <input type="checkbox"/> fishy <input type="checkbox"/> rotten eggs <input type="checkbox"/> organic <input type="checkbox"/> other: <input type="checkbox"/> none																																																																																																			
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b) Approximate width of water flow: <input type="checkbox"/> N/A 30 ft		6. Nature of the particles in the stream bottom: unknown																																																																																																							
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border-collapse: collapse;"> <tr> <th colspan="2">Left</th> <th></th> <th colspan="2">Right</th> </tr> <tr> <th>P</th> <th>C</th> <th></th> <th>P</th> <th>C</th> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Trees</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Bushes, Shrubs</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td>Tall grasses, forbs</td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Lawn, maintained landscape</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Boulders/Rocks</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Gravel/Sand</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Bare Soil</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Pavement, Structures</td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> </tr> </table>						Left			Right		P	C		P	C	<input type="checkbox"/>	<input type="checkbox"/>	Trees	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Bushes, Shrubs	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Tall grasses, forbs	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Lawn, maintained landscape	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Boulders/Rocks/Rip Rap	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Gravel/Sand	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Bare Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Pavement, Structures, Gabions	<input type="checkbox"/>	<input type="checkbox"/>	Left			Right		P	C		P	C	<input type="checkbox"/>	<input type="checkbox"/>	Trees	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Bushes, Shrubs	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Tall grasses, forbs	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Lawn, maintained landscape	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Boulders/Rocks	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Gravel/Sand	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Bare Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Pavement, Structures	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
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15. In the vicinity of the stream, Check "P" if present, "C" if common: <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="2">Left</th> <th></th> <th colspan="2">Right</th> </tr> <tr> <th>P</th> <th>C</th> <th></th> <th>P</th> <th>C</th> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Natural Streamside plant cover degraded</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Banks collapsed/eroded</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Garbage/junk adjacent to the stream</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Foam or sheen on bank</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Mud, silt, or sand in or entering the stream</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Garbage/junk in the stream</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Yard waste on bank (clippings, leaves, etc.)</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Livestock in or with unrestricted access</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Actively discharging pipes</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Other pipes</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Ditches entering stream</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </table>						Left			Right		P	C		P	C	<input type="checkbox"/>	<input type="checkbox"/>	Natural Streamside plant cover degraded	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Banks collapsed/eroded	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Garbage/junk adjacent to the stream	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Foam or sheen on bank	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Mud, silt, or sand in or entering the stream	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Garbage/junk in the stream	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Yard waste on bank (clippings, leaves, etc.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Livestock in or with unrestricted access	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Actively discharging pipes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Other pipes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Ditches entering stream	<input type="checkbox"/>	<input type="checkbox"/>																																			
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16. Ordinary High Water Mark Determination Check "P" if observed; Check "U" if used to determine OHWM <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>P</th> <th>U</th> <th></th> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Natural line impressed on the bank</td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Shelving</td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Changes in the character of soil</td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Destruction of terrestrial vegetation</td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Presence of litter and debris</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Wracking</td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Vegetation matted down; bent, or absent</td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Sediment sorting</td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Leaf litter disturbed or washed away</td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Scour</td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Deposition</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td>Multiple observed flow events</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td>Bed and banks</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td>Water staining</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td>Change in plant community</td> </tr> </table>						P	U		<input type="checkbox"/>	<input type="checkbox"/>	Natural line impressed on the bank	<input type="checkbox"/>	<input type="checkbox"/>	Shelving	<input type="checkbox"/>	<input type="checkbox"/>	Changes in the character of soil	<input type="checkbox"/>	<input type="checkbox"/>	Destruction of terrestrial vegetation	<input type="checkbox"/>	<input type="checkbox"/>	Presence of litter and debris	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Wracking	<input type="checkbox"/>	<input type="checkbox"/>	Vegetation matted down; bent, or absent	<input type="checkbox"/>	<input type="checkbox"/>	Sediment sorting	<input type="checkbox"/>	<input type="checkbox"/>	Leaf litter disturbed or washed away	<input type="checkbox"/>	<input type="checkbox"/>	Scour	<input type="checkbox"/>	<input type="checkbox"/>	Deposition	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Multiple observed flow events	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Bed and banks	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Water staining	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Change in plant community																																																				
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17. Waters Type <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td><input type="checkbox"/></td> <td>DELINEATE</td> <td><input type="checkbox"/></td> <td>RPWNN</td> </tr> <tr> <td><input type="checkbox"/></td> <td>TNW</td> <td><input type="checkbox"/></td> <td>NRPW</td> </tr> <tr> <td><input type="checkbox"/></td> <td>TNWW</td> <td><input type="checkbox"/></td> <td>NRPWW</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td>RPW</td> <td><input type="checkbox"/></td> <td>ISOLATE</td> </tr> <tr> <td><input type="checkbox"/></td> <td>RPWWD</td> <td><input type="checkbox"/></td> <td>UPLAND</td> </tr> <tr> <td><input type="checkbox"/></td> <td></td> <td><input type="checkbox"/></td> <td>TNWRPW</td> </tr> </table>						<input type="checkbox"/>	DELINEATE	<input type="checkbox"/>	RPWNN	<input type="checkbox"/>	TNW	<input type="checkbox"/>	NRPW	<input type="checkbox"/>	TNWW	<input type="checkbox"/>	NRPWW	<input checked="" type="checkbox"/>	RPW	<input type="checkbox"/>	ISOLATE	<input type="checkbox"/>	RPWWD	<input type="checkbox"/>	UPLAND	<input type="checkbox"/>		<input type="checkbox"/>	TNWRPW																																																																												
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18. Observed Fauna (make note of wildlife deterrents such as bird wires) <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th></th> <th>List</th> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td>Invertebrates bees, dragonflies</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td>Birds night heron</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td>Mammals voles</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td>Reptile/Amphians frog</td> </tr> <tr> <td><input type="checkbox"/></td> <td>Fish</td> </tr> </table>							List	<input checked="" type="checkbox"/>	Invertebrates bees, dragonflies	<input checked="" type="checkbox"/>	Birds night heron	<input checked="" type="checkbox"/>	Mammals voles	<input checked="" type="checkbox"/>	Reptile/Amphians frog	<input type="checkbox"/>	Fish																																																																																								
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19. Additional Comments culverts at each end between Taft Rd and post office; 1 check dam.																																																																																																									
Datasheet entered by:				Last Revised: 09/25																																																																																																					

Stream Characterization **Date:** 8/20/2019 **Time:** 1:30pm **Site:** ORD **County:** Cook
Field ID: Stream/Ditch **Stream Name:** Ditch 41 **Investigators:** CBM, KAS

Weather in the past 24 hours: <input type="checkbox"/> Storm (heavy rain) <input checked="" type="checkbox"/> Overcast <input type="checkbox"/> Rain (steady rain) <input type="checkbox"/> Clear/Sunny <input type="checkbox"/> Showers (intermittent rain)		3. Circle flow regime: <u>EPHEMERAL</u> PERENNIAL <u>INTERMITTENT</u>		9. Water Appearance: <input type="checkbox"/> clear <input type="checkbox"/> milky <input type="checkbox"/> foamy <input type="checkbox"/> turbid <input checked="" type="checkbox"/> light brown <input type="checkbox"/> dark brown <input type="checkbox"/> oily sheen <input type="checkbox"/> orange <input type="checkbox"/> none <input type="checkbox"/> greenish <input type="checkbox"/> other:		10. Water Odor: <input type="checkbox"/> sewage <input type="checkbox"/> chlorine <input type="checkbox"/> fishy <input type="checkbox"/> rotten eggs <input type="checkbox"/> organic <input checked="" type="checkbox"/> other: none																																																																																															
1. a) Approximate depth of water in stream: <input type="checkbox"/> N/A 4-6 inches b) Approximate width of water flow: <input type="checkbox"/> N/A 15 ft c) Approximate width of stream: (from top of bank to top of bank) 35 ft d) Approximate height of banks (channel depth): left: 5-15 ft right: 3-10 ft e) Approximate depth of pool(s): <input checked="" type="checkbox"/> N/A <input type="checkbox"/>		4. Stream habitats present: <input type="checkbox"/> Pool(s) <input type="checkbox"/> Run(s) <input type="checkbox"/> Riffles(s) <input checked="" type="checkbox"/> N/A 5. Stream Velocity: <input type="checkbox"/> fast <input type="checkbox"/> moderate <input type="checkbox"/> slow <input type="checkbox"/> N/A 6. Nature of the particles in the stream bottom: <table border="1" style="width:100%; text-align: center;"> <tr> <th></th> <th>None</th> <th>Little</th> <th>Some</th> <th>Most</th> </tr> <tr> <td>silt/clay/mud</td> <td></td> <td></td> <td></td> <td>X</td> </tr> <tr> <td>sand</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>gravel</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>cobbles (2 - 10" diam.)</td> <td></td> <td>X</td> <td></td> <td></td> </tr> <tr> <td>boulders (> 10" diam.)</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>bedrock</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>			None	Little	Some	Most	silt/clay/mud				X	sand					gravel					cobbles (2 - 10" diam.)		X			boulders (> 10" diam.)					bedrock					11. Presence of logs or large woody debris in stream: <input checked="" type="checkbox"/> None <input type="checkbox"/> Occasional <input type="checkbox"/> Plentiful 12. Pick the category that best describes the extent to which vegetation shades the stream: <input type="checkbox"/> 0% <input type="checkbox"/> 50% <input checked="" type="checkbox"/> 100% <input type="checkbox"/> 25% <input type="checkbox"/> 75% <input type="checkbox"/> other - %																																																														
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14. Describe the streamside cover. Check "P" if present, "C" if common a) Along the water's edge and stream bank only (facing upstream): <table border="1" style="width:100%; text-align: center;"> <tr> <th colspan="2">Left</th> <th></th> <th colspan="2">Right</th> </tr> <tr> <th>P</th> <th>C</th> <th></th> <th>P</th> <th>C</th> </tr> <tr> <td></td> <td></td> <td>Trees</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>Bushes, Shrubs</td> <td></td> <td></td> </tr> <tr> <td>X</td> <td>X</td> <td>Tall grasses, forbs</td> <td>X</td> <td>X</td> </tr> <tr> <td></td> <td></td> <td>Lawn, maintained landscape</td> <td></td> <td></td> </tr> <tr> <td>X</td> <td></td> <td>Boulders/Rocks/Rip Rap</td> <td>X</td> <td></td> </tr> <tr> <td></td> <td></td> <td>Gravel/Sand</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>Bare Soil</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>Pavement, Structures, Gabions</td> <td></td> <td></td> </tr> </table>		Left			Right		P	C		P	C			Trees					Bushes, Shrubs			X	X	Tall grasses, forbs	X	X			Lawn, maintained landscape			X		Boulders/Rocks/Rip Rap	X				Gravel/Sand					Bare Soil					Pavement, Structures, Gabions			16. Ordinary High Water Mark Determination Check "P" if observed; Check "U" if used to determine OHWM <table border="1" style="width:100%; text-align: center;"> <tr> <th>P</th> <th>U</th> <th></th> </tr> <tr> <td></td> <td></td> <td>Natural line impressed on the bank</td> </tr> <tr> <td></td> <td></td> <td>Shelving</td> </tr> <tr> <td></td> <td></td> <td>Changes in the character of soil</td> </tr> <tr> <td></td> <td></td> <td>Destruction of terrestrial vegetation</td> </tr> <tr> <td>X</td> <td></td> <td>Presence of litter and debris</td> </tr> <tr> <td></td> <td></td> <td>Wracking</td> </tr> <tr> <td></td> <td></td> <td>Vegetation matted down; bent, or absent</td> </tr> <tr> <td></td> <td></td> <td>Sediment sorting</td> </tr> <tr> <td></td> <td></td> <td>Leaf litter disturbed or washed away</td> </tr> <tr> <td></td> <td></td> <td>Scour</td> </tr> <tr> <td></td> <td></td> <td>Deposition</td> </tr> <tr> <td></td> <td></td> <td>Multiple observed flow events</td> </tr> <tr> <td>X</td> <td>X</td> <td>Bed and banks</td> </tr> <tr> <td></td> <td></td> <td>Water staining</td> </tr> <tr> <td>X</td> <td>X</td> <td>Change in plant community</td> </tr> </table>		P	U				Natural line impressed on the bank			Shelving			Changes in the character of soil			Destruction of terrestrial vegetation	X		Presence of litter and debris			Wracking			Vegetation matted down; bent, or absent			Sediment sorting			Leaf litter disturbed or washed away			Scour			Deposition			Multiple observed flow events	X	X	Bed and banks			Water staining	X	X	Change in plant community
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Stream Characterization		Date: 8/19/2019	Time: 3:30pm	Site: ORD	County: Cook
Field ID: Stream/Ditch		Stream Name: Ditch 42			Investigators: CBM

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Investigators: CBM

Page 1 of 1
JUNE 2022

Stream Characterization **Date:** 8/29/2019 **Time:** 11:45 AM **Site:** ORD **County:** Cook
Field ID: Stream/Ditch **Stream Name:** Ditch 44 **Investigators:** CBM, BJH

Weather in the past 24 hours: <input type="checkbox"/> Storm (heavy rain) <input type="checkbox"/> Overcast <input checked="" type="checkbox"/> Rain (steady rain) <input checked="" type="checkbox"/> Clear/Sunny <input type="checkbox"/> Showers (intermittent rain)		3. Circle flow regime: <u>EPHEMERAL</u> PERENNIAL <input checked="" type="checkbox"/> INTERMITTENT		9. Water Appearance: <input checked="" type="checkbox"/> clear <input type="checkbox"/> milky <input type="checkbox"/> foamy <input type="checkbox"/> turbid <input type="checkbox"/> light brown <input type="checkbox"/> dark brown <input type="checkbox"/> oily sheen <input type="checkbox"/> orange <input type="checkbox"/> none <input type="checkbox"/> greenish <input type="checkbox"/> other:		10. Water Odor: <input type="checkbox"/> sewage <input type="checkbox"/> chlorine <input type="checkbox"/> fishy <input type="checkbox"/> rotten eggs <input type="checkbox"/> organic <input checked="" type="checkbox"/> other: none																																																																																																																																																	
1. a) Approximate depth of water in stream: <input type="checkbox"/> N/A 6-12 inches b) Approximate width of water flow: <input type="checkbox"/> N/A 10 ft c) Approximate width of stream: (from top of bank to top of bank) 18 ft d) Approximate height of banks (channel depth): left 3 ft right 8 ft e) Approximate depth of pool(s): <input type="checkbox"/> N/A 12 inches		4. Stream habitats present: <input type="checkbox"/> Pool(s) <input type="checkbox"/> Run(s) <input type="checkbox"/> Riffles(s) <input checked="" type="checkbox"/> N/A 5. Stream Velocity: <input type="checkbox"/> fast <input type="checkbox"/> moderate <input checked="" type="checkbox"/> slow <input type="checkbox"/> N/A 6. Nature of the particles in the stream bottom: <table border="1" style="width:100%; text-align: center;"> <tr> <th></th> <th>None</th> <th>Little</th> <th>Some</th> <th>Most</th> </tr> <tr> <td>silt/clay/mud</td> <td></td> <td></td> <td></td> <td>X</td> </tr> <tr> <td>sand</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>gravel</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>cobbles (2 - 10" diam.)</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>boulders (> 10" diam.)</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>bedrock</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>			None	Little	Some	Most	silt/clay/mud				X	sand					gravel					cobbles (2 - 10" diam.)					boulders (> 10" diam.)					bedrock					11. Presence of logs or large woody debris in stream: <input checked="" type="checkbox"/> None <input type="checkbox"/> Occasional <input type="checkbox"/> Plentiful 12. Pick the category that best describes the extent to which vegetation shades the stream: <input checked="" type="checkbox"/> 0% <input type="checkbox"/> 50% <input type="checkbox"/> 100% <input type="checkbox"/> 25% <input type="checkbox"/> 75% <input type="checkbox"/> other - %																																																																																																																
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Stream Characterization **Date:** 9/19/2019 **Time:** 5:30pm **Site:** ORD **County:** Cook
Field ID: Stream/Ditch **Stream Name:** Ditch 45 **Investigators:** CBM, BJH

Weather in the past 24 hours: <input type="checkbox"/> Storm (heavy rain) <input type="checkbox"/> Overcast <input checked="" type="checkbox"/> Rain (steady rain) <input checked="" type="checkbox"/> Clear/Sunny <input type="checkbox"/> Showers (intermittent rain)		3. Circle flow regime: EPHEMERAL <u>PERENNIAL</u> 4. Stream habitats present: <input type="checkbox"/> Pool(s) <input type="checkbox"/> Run(s) <input type="checkbox"/> Riffles(s) <input checked="" type="checkbox"/> N/A		9. Water Appearance: <input type="checkbox"/> clear <input checked="" type="checkbox"/> milky <input type="checkbox"/> foamy <input type="checkbox"/> turbid <input type="checkbox"/> light brown <input type="checkbox"/> dark brown <input checked="" type="checkbox"/> oily sheen <input type="checkbox"/> orange <input type="checkbox"/> none <input type="checkbox"/> greenish <input type="checkbox"/> other:		10. Water Odor: <input type="checkbox"/> sewage <input type="checkbox"/> chlorine <input type="checkbox"/> fishy <input type="checkbox"/> rotten eggs <input type="checkbox"/> organic <input checked="" type="checkbox"/> other: none																																																																																																																																																	
1. a) Approximate depth of water in stream: <input type="checkbox"/> N/A 2-3 inches b) Approximate width of water flow: <input type="checkbox"/> N/A 10 ft c) Approximate width of stream: (from top of bank to top of bank) 20 ft d) Approximate height of banks (channel depth): left 3 ft right 3 ft e) Approximate depth of pool(s): <input checked="" type="checkbox"/> N/A		5. Stream Velocity: <input type="checkbox"/> fast <input type="checkbox"/> moderate <input type="checkbox"/> slow <input checked="" type="checkbox"/> N/A 6. Nature of the particles in the stream bottom: <table border="1" style="width:100%; text-align: center;"> <tr> <th></th> <th>None</th> <th>Little</th> <th>Some</th> <th>Most</th> </tr> <tr> <td>silt/clay/mud</td> <td></td> <td></td> <td></td> <td>X</td> </tr> <tr> <td>sand</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>gravel</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>cobbles (2 - 10" diam.)</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>boulders (> 10" diam.)</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>bedrock</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>			None	Little	Some	Most	silt/clay/mud				X	sand					gravel					cobbles (2 - 10" diam.)					boulders (> 10" diam.)					bedrock					11. Presence of logs or large woody debris in stream: <input type="checkbox"/> None <input checked="" type="checkbox"/> Occasional <input type="checkbox"/> Plentiful 12. Pick the category that best describes the extent to which vegetation shades the stream: <input type="checkbox"/> 0% <input type="checkbox"/> 50% <input checked="" type="checkbox"/> 100% <input type="checkbox"/> 25% <input type="checkbox"/> 75% <input type="checkbox"/> other - %																																																																																																																
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Stream Characterization **Date:** 9/28/2019 **Time:** 10:00am **Site:** ORD **County:** Cook
Field ID: Stream Ditch **Stream Name:** Ditch 46 **Investigators:** CBM, BJH

<p>Weather in the past 24 hours:</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td><input type="checkbox"/> Storm (heavy rain)</td> <td><input type="checkbox"/> Overcast</td> </tr> <tr> <td><input type="checkbox"/> Rain (steady rain)</td> <td><input checked="" type="checkbox"/> Clear/Sunny</td> </tr> <tr> <td><input type="checkbox"/> Showers (intermittent rain)</td> <td></td> </tr> </table> <p>1. a) Approximate depth of water in stream: <input type="checkbox"/> N/A <input type="checkbox"/></p> <p>b) Approximate width of water flow: <input type="checkbox"/> N/A <input type="checkbox"/></p> <p>c) Approximate width of stream: (from top of bank to top of bank) 4-6 ft</p> <p>d) Approximate height of banks (channel depth): left <input type="checkbox"/> 2 ft right <input type="checkbox"/> 2 ft</p> <p>e) Approximate depth of pool(s): <input checked="" type="checkbox"/> N/A <input type="checkbox"/></p> <p>2. Plant Species Adjacent to stream (scientific name):</p> <p>Trees: <i>Morus alba</i>, <i>Acer negundo</i> <i>Rhamnus cathartica</i></p> <p>Understory: <i>Phalaris arundinacea</i>, <i>Carex sp.</i>, <i>Solidago sempervirens</i>, <i>Rumex crispus</i>, <i>Eleocharis obtusa</i>, <i>Sambucus canadensis</i></p>	<input type="checkbox"/> Storm (heavy rain)	<input type="checkbox"/> Overcast	<input type="checkbox"/> Rain (steady rain)	<input checked="" type="checkbox"/> Clear/Sunny	<input type="checkbox"/> Showers (intermittent rain)		<p>3. Circle flow regime: <u>EPHEMERAL</u> PERENNIAL <u>INTERMITTENT</u></p> <p>4. Stream habitats present: <input type="checkbox"/> Pool(s) <input type="checkbox"/> Run(s) <input type="checkbox"/> Riffles(s) <input checked="" type="checkbox"/> N/A</p> <p>5. Stream Velocity: <input type="checkbox"/> fast <input type="checkbox"/> moderate <input type="checkbox"/> slow <input checked="" type="checkbox"/> N/A</p> <p>6. Nature of the particles in the stream bottom:</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>None</th> <th>Little</th> <th>Some</th> <th>Most</th> </tr> </thead> <tbody> <tr> <td>silt/clay/mud</td> <td></td> <td></td> <td></td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td>sand</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>gravel</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>cobbles (2 - 10" diam.)</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>boulders (> 10" diam.)</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>bedrock</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>7. Presence of naturally occurring organic material in stream: <input checked="" type="checkbox"/> None <input type="checkbox"/> Occasional <input type="checkbox"/> Unknown <input type="checkbox"/> Plentiful</p> <p>8. Facing upstream, does this stream have <u>tree</u> cover for 50 feet on the: left side <input type="checkbox"/> no right side <input checked="" type="checkbox"/> yes</p> <p>What is the % cover of <u>trees</u> per side of the stream? left side <input type="checkbox"/> 0 % right side <input checked="" type="checkbox"/> 80 %</p> <p>Facing upstream, does this stream have <u>shrub</u> cover for 50 feet on the: left side <input type="checkbox"/> no right side <input checked="" type="checkbox"/> yes</p> <p>What is the % cover of <u>shrubs</u> per side of the stream? 0% 20% Observer initials: <input type="checkbox"/></p>		None	Little	Some	Most	silt/clay/mud				<input checked="" type="checkbox"/>	sand					gravel					cobbles (2 - 10" diam.)					boulders (> 10" diam.)					bedrock					<p>9. Water Appearance:</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr><td><input type="checkbox"/> clear</td></tr> <tr><td><input type="checkbox"/> milky</td></tr> <tr><td><input type="checkbox"/> foamy</td></tr> <tr><td><input type="checkbox"/> turbid</td></tr> <tr><td><input type="checkbox"/> light brown</td></tr> <tr><td><input type="checkbox"/> dark brown</td></tr> <tr><td><input type="checkbox"/> oily sheen</td></tr> <tr><td><input type="checkbox"/> orange</td></tr> <tr><td><input type="checkbox"/> greenish</td></tr> <tr><td><input checked="" type="checkbox"/> other:</td></tr> </table> <p>10. Water Odor: <input type="checkbox"/> sewage <input type="checkbox"/> chlorine <input type="checkbox"/> fishy <input type="checkbox"/> rotten eggs <input type="checkbox"/> organic <input checked="" type="checkbox"/> other: none</p> <p>11. Presence of logs or large woody debris in stream: <input checked="" type="checkbox"/> None <input type="checkbox"/> Occasional <input type="checkbox"/> Plentiful</p> <p>12. Pick the category that best describes the extent to which vegetation <u>shades</u> the stream: <input type="checkbox"/> 0% <input type="checkbox"/> 50% <input type="checkbox"/> 100% <input checked="" type="checkbox"/> 25% <input type="checkbox"/> 75% <input type="checkbox"/> other - %</p> <p>13. Pick the description that best fits the stream bank and the channel (facing upstream):</p> <p>a) Stream bank:</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Left</th> <th></th> <th>Right</th> </tr> </thead> <tbody> <tr> <td><input type="checkbox"/></td> <td>Vertical/undercut</td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/></td> <td>Steeply sloping (>30°)</td> <td><input type="checkbox"/></td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td>Gradual/No slope (<30°)</td> <td><input checked="" type="checkbox"/></td> </tr> </tbody> </table> <p>b) Shape of the channel:</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Narrow, Deep</th> <th>Wide, Deep</th> </tr> </thead> <tbody> <tr> <td><input checked="" type="checkbox"/> Narrow, Shallow</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </tbody> </table>	<input type="checkbox"/> clear	<input type="checkbox"/> milky	<input type="checkbox"/> foamy	<input type="checkbox"/> turbid	<input type="checkbox"/> light brown	<input type="checkbox"/> dark brown	<input type="checkbox"/> oily sheen	<input type="checkbox"/> orange	<input type="checkbox"/> greenish	<input checked="" type="checkbox"/> other:	Left		Right	<input type="checkbox"/>	Vertical/undercut	<input type="checkbox"/>	<input type="checkbox"/>	Steeply sloping (>30°)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Gradual/No slope (<30°)	<input checked="" type="checkbox"/>		Narrow, Deep	Wide, Deep	<input checked="" type="checkbox"/> Narrow, Shallow	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																										
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Shrubs	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Tall grasses, forbs	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Lawn, maintained landscape	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Boulders/Rocks/Rip Rap	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Gravel/Sand	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Bare Soil	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Pavement, Structures, Gabions	<input type="checkbox"/>	<input 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silt, or sand in or entering the stream	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Garbage/junk in the stream	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Yard waste on bank (clippings, leaves, etc.)	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Livestock in or with unrestricted access	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Actively discharging pipes	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Other pipes	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Ditches entering stream	<input 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<p>16. Ordinary High Water Mark Determination</p> <p>Check "P" if observed; Check "U" if used to determine OHWM</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>P</th> <th>U</th> <th></th> </tr> </thead> <tbody> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>Natural line impressed on the bank</td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>Shelving</td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>Changes in the character of soil</td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>Destruction of terrestrial vegetation</td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>Presence of litter and debris</td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>Wracking</td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>Vegetation matted down; bent, or absent</td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>Sediment sorting</td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>Leaf litter disturbed or washed away</td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>Scour</td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>Deposition</td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>Multiple observed flow events</td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>Bed and banks</td></tr> <tr><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td><td>Water staining</td></tr> <tr><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td>Change in plant community</td></tr> </tbody> </table> <p>17. Waters Type</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td><input checked="" type="checkbox"/></td> <td>DELINEATE</td> <td><input type="checkbox"/></td> <td>RPWNN</td> </tr> <tr> <td><input type="checkbox"/></td> <td>TNW</td> <td><input type="checkbox"/></td> <td>NRPW</td> </tr> <tr> <td><input type="checkbox"/></td> <td>TNWW</td> <td><input type="checkbox"/></td> <td>NRPWW</td> </tr> <tr> <td><input type="checkbox"/></td> <td>RPW</td> <td><input type="checkbox"/></td> <td>ISOLATE</td> </tr> <tr> <td><input type="checkbox"/></td> <td>RPWWD</td> <td><input type="checkbox"/></td> <td>UPLAND</td> </tr> <tr> <td><input type="checkbox"/></td> <td></td> <td><input type="checkbox"/></td> <td>TNWRPW</td> </tr> </table> <p>18. Observed Fauna (make note of wildlife deterrents such as bird wires)</p> <p>List</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr><td><input type="checkbox"/></td><td>Invertebrates</td><td></td></tr> <tr><td><input type="checkbox"/></td><td>Birds</td><td></td></tr> <tr><td><input type="checkbox"/></td><td>Mammals</td><td></td></tr> <tr><td><input type="checkbox"/></td><td>Reptile/Amphians</td><td></td></tr> <tr><td><input type="checkbox"/></td><td>Fish</td><td></td></tr> </table> <p>19. Additional Comments Roadside ditch along Mannheim Rd.</p>			P	U		<input type="checkbox"/>	<input type="checkbox"/>	Natural line impressed on the bank	<input type="checkbox"/>	<input type="checkbox"/>	Shelving	<input type="checkbox"/>	<input type="checkbox"/>	Changes in the character of soil	<input type="checkbox"/>	<input type="checkbox"/>	Destruction of terrestrial vegetation	<input type="checkbox"/>	<input type="checkbox"/>	Presence of litter and debris	<input type="checkbox"/>	<input type="checkbox"/>	Wracking	<input type="checkbox"/>	<input type="checkbox"/>	Vegetation matted down; bent, or absent	<input type="checkbox"/>	<input type="checkbox"/>	Sediment sorting	<input type="checkbox"/>	<input type="checkbox"/>	Leaf litter disturbed or washed away	<input type="checkbox"/>	<input type="checkbox"/>	Scour	<input type="checkbox"/>	<input type="checkbox"/>	Deposition	<input type="checkbox"/>	<input type="checkbox"/>	Multiple observed flow events	<input type="checkbox"/>	<input type="checkbox"/>	Bed and banks	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Water staining	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Change in plant community	<input checked="" type="checkbox"/>	DELINEATE	<input type="checkbox"/>	RPWNN	<input type="checkbox"/>	TNW	<input type="checkbox"/>	NRPW	<input type="checkbox"/>	TNWW	<input type="checkbox"/>	NRPWW	<input type="checkbox"/>	RPW	<input type="checkbox"/>	ISOLATE	<input type="checkbox"/>	RPWWD	<input type="checkbox"/>	UPLAND	<input type="checkbox"/>		<input type="checkbox"/>	TNWRPW	<input type="checkbox"/>	Invertebrates		<input type="checkbox"/>	Birds		<input type="checkbox"/>	Mammals		<input type="checkbox"/>	Reptile/Amphians		<input type="checkbox"/>	Fish																																																																																																																												
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Stream Characterization **Date:** 9/19/2019 **Time:** 4:40pm **Site:** ORD **County:** Cook
Field ID: Stream Ditch **Stream Name:** Ditch 47 **Investigators:** CBM, BJH

Weather in the past 24 hours: <input type="checkbox"/> Storm (heavy rain) <input type="checkbox"/> Overcast <input type="checkbox"/> Rain (steady rain) <input checked="" type="checkbox"/> Clear/Sunny <input type="checkbox"/> Showers (intermittent rain)		3. Circle flow regime: <u>EPHEMERAL</u> PERENNIAL <u>INTERMITTENT</u>		9. Water Appearance: <input checked="" type="checkbox"/> clear <input type="checkbox"/> milky <input type="checkbox"/> foamy <input type="checkbox"/> turbid <input type="checkbox"/> light brown <input type="checkbox"/> dark brown <input type="checkbox"/> oily sheen <input type="checkbox"/> orange <input type="checkbox"/> none <input type="checkbox"/> greenish <input type="checkbox"/> other:		10. Water Odor: <input type="checkbox"/> sewage <input type="checkbox"/> chlorine <input type="checkbox"/> fishy <input type="checkbox"/> rotten eggs <input type="checkbox"/> organic <input checked="" type="checkbox"/> other: none																																																																																																																																																	
1. a) Approximate depth of water in stream: <input type="checkbox"/> N/A <input type="checkbox"/> 2 inches b) Approximate width of water flow: <input type="checkbox"/> N/A <input type="checkbox"/> 10 ft c) Approximate width of stream: (from top of bank to top of bank) <input type="checkbox"/> 25 ft d) Approximate height of banks (channel depth): left <input type="checkbox"/> 6 ft right <input type="checkbox"/> 10 ft e) Approximate depth of pool(s): <input checked="" type="checkbox"/> N/A <input type="checkbox"/>		4. Stream habitats present: <input type="checkbox"/> Pool(s) <input type="checkbox"/> Run(s) <input type="checkbox"/> Riffles(s) <input checked="" type="checkbox"/> N/A 5. Stream Velocity: <input type="checkbox"/> fast <input type="checkbox"/> moderate <input checked="" type="checkbox"/> slow <input type="checkbox"/> N/A 6. Nature of the particles in the stream bottom: <table border="1" style="width:100%; text-align: center;"> <tr> <th></th> <th>None</th> <th>Little</th> <th>Some</th> <th>Most</th> </tr> <tr> <td>silt/clay/mud</td> <td></td> <td></td> <td></td> <td>X</td> </tr> <tr> <td>sand</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>gravel</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>cobbles (2 - 10" diam.)</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>boulders (> 10" diam.)</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>bedrock</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>			None	Little	Some	Most	silt/clay/mud				X	sand					gravel					cobbles (2 - 10" diam.)					boulders (> 10" diam.)					bedrock					11. Presence of logs or large woody debris in stream: <input type="checkbox"/> None <input checked="" type="checkbox"/> Occasional <input type="checkbox"/> Plentiful 12. Pick the category that best describes the extent to which vegetation shades the stream: <input type="checkbox"/> 0% <input type="checkbox"/> 50% <input type="checkbox"/> 100% <input type="checkbox"/> 25% <input checked="" type="checkbox"/> 75% <input type="checkbox"/> other - %																																																																																																																
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2. Plant Species Adjacent to stream (scientific name): Trees: <i>Rhamnus cathartica</i> , <i>Salix interior</i> <i>Fraxinus pensylvanica</i> Understory: <i>Vitis riparia</i> , <i>Typha angustifolia</i> , <i>Lythrum salicaria</i>		8. Facing upstream, does this stream have <u>tree</u> cover for 50 feet on the: left side <input checked="" type="checkbox"/> yes right side <input checked="" type="checkbox"/> yes What is the % cover of <u>trees</u> per side of the stream? left side <input type="checkbox"/> 30 % right side <input type="checkbox"/> 20 % Facing upstream, does this stream have <u>shrub</u> cover for 50 feet on the: left side <input checked="" type="checkbox"/> yes right side <input checked="" type="checkbox"/> yes What is the % cover of <u>shrubs</u> per side of the stream? 30% 20% Observer initials:		13. Pick the description that best fits the stream bank and the channel (facing upstream): a) Stream bank: <table border="1" style="width:100%; text-align: center;"> <tr> <th>Left</th> <th></th> <th>Right</th> </tr> <tr> <td></td> <td>Vertical/undercut</td> <td></td> </tr> <tr> <td>X</td> <td>Steeply sloping (>30°)</td> <td>X</td> </tr> <tr> <td></td> <td>Gradual/No slope (<30°)</td> <td></td> </tr> </table> b) Shape of the channel: <input type="checkbox"/> Narrow, Deep <input type="checkbox"/> Wide, Deep <input checked="" type="checkbox"/> Narrow, Shallow <input type="checkbox"/> Wide, Shallow		Left		Right		Vertical/undercut		X	Steeply sloping (>30°)	X		Gradual/No slope (<30°)																																																																																																																																							
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18. Observed Fauna (make note of wildlife deterrents such as bird wires) List <input type="checkbox"/> Invertebrates <input type="checkbox"/> Birds <input type="checkbox"/> Mammals <input type="checkbox"/> Reptile/Amphians <input type="checkbox"/> Fish		19. Additional Comments 6ft x 3ft culvert at west end drains to ditch. Large 36" culvert connects two sections.																																																																																																																																																					
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Stream Characterization **Date:** 9/26/2019 **Time:** 9:00am **Site:** ORD **County:** Cook
Field ID: Stream/Ditch **Stream Name:** Ditch 48 **Investigators:** CBM, BJH

Weather in the past 24 hours: <input type="checkbox"/> Storm (heavy rain) <input type="checkbox"/> Overcast <input checked="" type="checkbox"/> Rain (steady rain) <input checked="" type="checkbox"/> Clear/Sunny <input type="checkbox"/> Showers (intermittent rain)		3. Circle flow regime: <u>EPHEMERAL</u> PERENNIAL <u>INTERMITTENT</u>		9. Water Appearance: <input type="checkbox"/> clear <input type="checkbox"/> milky <input type="checkbox"/> foamy <input type="checkbox"/> turbid <input type="checkbox"/> light brown <input type="checkbox"/> dark brown <input checked="" type="checkbox"/> oily sheen <input type="checkbox"/> orange <input type="checkbox"/> none <input type="checkbox"/> greenish <input type="checkbox"/> other:		10. Water Odor: <input type="checkbox"/> sewage <input type="checkbox"/> chlorine <input type="checkbox"/> fishy <input type="checkbox"/> rotten eggs <input type="checkbox"/> organic <input checked="" type="checkbox"/> other: none																																																																							
1. a) Approximate depth of water in stream: <input type="checkbox"/> N/A 2 inches		4. Stream habitats present: <input type="checkbox"/> Pool(s) <input type="checkbox"/> Run(s) <input type="checkbox"/> Riffles(s) <input checked="" type="checkbox"/> N/A		11. Presence of logs or large woody debris in stream: <input checked="" type="checkbox"/> None <input type="checkbox"/> Occasional <input type="checkbox"/> Plentiful		12. Pick the category that best describes the extent to which vegetation shades the stream: <input type="checkbox"/> 0% <input type="checkbox"/> 50% <input checked="" type="checkbox"/> 100% <input type="checkbox"/> 25% <input type="checkbox"/> 75% <input type="checkbox"/> other - %																																																																							
b) Approximate width of water flow: <input type="checkbox"/> N/A 12 ft		5. Stream Velocity: <input type="checkbox"/> fast <input type="checkbox"/> moderate <input type="checkbox"/> slow <input checked="" type="checkbox"/> N/A																																																																											
c) Approximate width of stream: (from top of bank to top of bank) 25 ft		6. Nature of the particles in the stream bottom: <table border="1" style="width:100%; text-align: center;"> <tr> <th></th> <th>None</th> <th>Little</th> <th>Some</th> <th>Most</th> </tr> <tr> <td>silt/clay/mud</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>sand</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>gravel</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>cobbles (2 - 10" diam.)</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>boulders (> 10" diam.)</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>bedrock</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>			None	Little	Some	Most	silt/clay/mud					sand					gravel					cobbles (2 - 10" diam.)					boulders (> 10" diam.)					bedrock					13. Pick the description that best fits the stream bank and the channel (facing upstream): a) Stream bank: <table border="1" style="width:100%; text-align: center;"> <tr> <th>Left</th> <th></th> <th>Right</th> </tr> <tr> <td></td> <td>Vertical/undercut</td> <td></td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td>Steeply sloping (>30°)</td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td></td> <td>Gradual/No slope (<30°)</td> <td></td> </tr> </table> b) Shape of the channel: <table border="1" style="width:100%; text-align: center;"> <tr> <td><input checked="" type="checkbox"/></td> <td>Narrow, Deep</td> <td>Wide, Deep</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td>Narrow, Shallow</td> <td>Wide, Shallow</td> </tr> </table>		Left		Right		Vertical/undercut		<input checked="" type="checkbox"/>	Steeply sloping (>30°)	<input checked="" type="checkbox"/>		Gradual/No slope (<30°)		<input checked="" type="checkbox"/>	Narrow, Deep	Wide, Deep	<input checked="" type="checkbox"/>	Narrow, Shallow	Wide, Shallow																			
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19. Additional Comments Culvert on west end from detention area to west. Fenced in lot on right bank with SCF. Culvert at west end; roadside ditch from north.		Datasheet entered by:		Last Revised: 09/25																																																																									

Stream Characterization **Date:** 9/18/2019 **Time:** 9:20 AM **Site:** ORD **County:** Cook
Field ID: Stream/Ditch **Stream Name:** erosional features **Investigators:** CBM, BJH

<p>Weather in the past 24 hours:</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td><input type="checkbox"/> Storm (heavy rain)</td> <td><input type="checkbox"/> Overcast</td> </tr> <tr> <td><input type="checkbox"/> Rain (steady rain)</td> <td><input checked="" type="checkbox"/> Clear/Sunny</td> </tr> <tr> <td><input type="checkbox"/> Showers (intermittent rain)</td> <td></td> </tr> </table> <p>1. a) Approximate depth of water in stream: <input checked="" type="checkbox"/> N/A</p> <p>b) Approximate width of water flow: <input checked="" type="checkbox"/> N/A</p> <p>c) Approximate width of stream: (from top of bank to top of bank)</p> <p>d) Approximate height of banks (channel depth): left <input type="text"/> right <input type="text"/></p> <p>e) Approximate depth of pool(s): <input checked="" type="checkbox"/> N/A</p> <p>2. Plant Species Adjacent to stream (scientific name):</p> <p>Trees:</p> <p><i>Acer negundo</i>, <i>Populus deltoides</i> <i>Rhamnus cathartica</i></p> <p>Understory:</p>	<input type="checkbox"/> Storm (heavy rain)	<input type="checkbox"/> Overcast	<input type="checkbox"/> Rain (steady rain)	<input checked="" type="checkbox"/> Clear/Sunny	<input type="checkbox"/> Showers (intermittent rain)		<p>3. Circle flow regime: EPHEMERAL PERENNIAL INTERMITTENT</p> <p>4. Stream habitats present:</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td><input type="checkbox"/> Pool(s)</td> <td><input type="checkbox"/> Run(s)</td> </tr> <tr> <td><input type="checkbox"/> Riffles(s)</td> <td><input checked="" type="checkbox"/> N/A</td> </tr> </table> <p>5. Stream Velocity: <input type="checkbox"/> fast <input type="checkbox"/> moderate <input type="checkbox"/> slow <input checked="" type="checkbox"/> N/A</p> <p>6. Nature of the particles in the stream bottom:</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th></th> <th>None</th> <th>Little</th> <th>Some</th> <th>Most</th> </tr> <tr> <td>silt/clay/mud</td> <td></td> <td></td> <td><input checked="" type="checkbox"/></td> <td></td> </tr> <tr> <td>sand</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>gravel</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>cobbles (2 - 10" diam.)</td> <td></td> <td></td> <td><input checked="" type="checkbox"/></td> <td></td> </tr> <tr> <td>boulders (> 10" diam.)</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>bedrock</td> <td></td> <td></td> <td></td> <td></td> </tr> </table> <p>7. Presence of naturally occurring organic material in stream: <input checked="" type="checkbox"/> None <input type="checkbox"/> Occasional <input type="checkbox"/> Unknown <input type="checkbox"/> Plentiful</p> <p>8. Facing upstream, does this stream have tree cover for 50 feet on the: left side _____ right side _____</p> <p>What is the % cover of trees per side of the stream? left side _____% right side _____%</p> <p>Facing upstream, does this stream have shrub cover for 50 feet on the: left side _____ right side _____</p> <p>What is the % cover of shrubs per side of the stream? Observer initials: _____</p>	<input type="checkbox"/> Pool(s)	<input type="checkbox"/> Run(s)	<input type="checkbox"/> Riffles(s)	<input checked="" type="checkbox"/> N/A		None	Little	Some	Most	silt/clay/mud			<input checked="" type="checkbox"/>		sand					gravel					cobbles (2 - 10" diam.)			<input checked="" type="checkbox"/>		boulders (> 10" diam.)					bedrock					<p>9. Water Appearance:</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr><td><input type="checkbox"/> clear</td></tr> <tr><td><input type="checkbox"/> milky</td></tr> <tr><td><input type="checkbox"/> foamy</td></tr> <tr><td><input type="checkbox"/> turbid</td></tr> <tr><td><input type="checkbox"/> light brown</td></tr> <tr><td><input type="checkbox"/> dark brown</td></tr> <tr><td><input type="checkbox"/> oily sheen</td></tr> <tr><td><input type="checkbox"/> orange</td></tr> <tr><td><input type="checkbox"/> greenish</td></tr> <tr><td><input checked="" type="checkbox"/> other:</td></tr> </table> <p>10. Water Odor: <input type="checkbox"/> sewage <input type="checkbox"/> chlorine <input type="checkbox"/> fishy <input type="checkbox"/> rotten eggs <input type="checkbox"/> organic <input checked="" type="checkbox"/> other: none</p> <p>11. Presence of logs or large woody debris in stream: <input checked="" type="checkbox"/> None <input type="checkbox"/> Occasional <input type="checkbox"/> Plentiful</p> <p>12. Pick the category that best describes the extent to which vegetation shades the stream: <input type="checkbox"/> 0% <input type="checkbox"/> 50% <input checked="" type="checkbox"/> 100% <input type="checkbox"/> 25% <input type="checkbox"/> 75% <input type="checkbox"/> other - %</p> <p>13. Pick the description that best fits the stream bank and the channel (facing upstream):</p> <p>a) Stream bank:</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>Left</th> <th></th> <th>Right</th> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td>Vertical/undercut</td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/></td> <td>Steeply sloping (>30°)</td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/></td> <td>Gradual/No slope (<30°)</td> <td><input type="checkbox"/></td> </tr> </table> <p>b) Shape of the channel:</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td><input type="checkbox"/> Narrow, Deep</td> <td><input type="checkbox"/> Wide, Deep</td> </tr> <tr> <td><input type="checkbox"/> Narrow, Shallow</td> <td><input type="checkbox"/> Wide, Shallow</td> </tr> </table>	<input type="checkbox"/> clear	<input type="checkbox"/> milky	<input type="checkbox"/> foamy	<input type="checkbox"/> turbid	<input type="checkbox"/> light brown	<input type="checkbox"/> dark brown	<input type="checkbox"/> oily sheen	<input type="checkbox"/> orange	<input type="checkbox"/> greenish	<input checked="" type="checkbox"/> other:	Left		Right	<input checked="" type="checkbox"/>	Vertical/undercut	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Steeply sloping (>30°)	<input type="checkbox"/>	<input type="checkbox"/>	Gradual/No slope (<30°)	<input type="checkbox"/>	<input type="checkbox"/> Narrow, Deep	<input type="checkbox"/> Wide, Deep	<input type="checkbox"/> Narrow, Shallow	<input type="checkbox"/> Wide, Shallow																													
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<p>14. Describe the streamside cover. Check "P" if present, "C" if common</p> <p>a) <u>Along the water's edge and stream bank only</u> (facing upstream):</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="2">Left</th> <th></th> <th colspan="2">Right</th> </tr> <tr> <th>P</th> <th>C</th> <th></th> <th>P</th> <th>C</th> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td>Trees</td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Bushes, Shrubs</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Tall grasses, forbs</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Lawn, maintained landscape</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Boulders/Rocks/Rip Rap</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Gravel/Sand</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Bare Soil</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Pavement, Structures, Gabions</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </table> <p>b) <u>From the top of the streambank out to 50 feet</u>:</p> <table border="1" style="width:100%; 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<p>15. <u>In the vicinity of the stream</u>, Check "P" if present, "C" if common:</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="2">Left</th> <th></th> <th colspan="2">Right</th> </tr> <tr> <th>P</th> <th>C</th> <th></th> <th>P</th> <th>C</th> </tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>Natural Streamside plant cover degraded</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>Banks collapsed/eroded</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>Garbage/junk adjacent to the stream</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>Foam or sheen on bank</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>Mud, silt, or sand in or entering the stream</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>Garbage/junk in the stream</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>Yard waste on bank (clippings, leaves, etc.)</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>Livestock in or with unrestricted access</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>Actively discharging pipes</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>Other pipes</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>Ditches entering stream</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> </table>			Left			Right		P	C		P	C	<input type="checkbox"/>	<input type="checkbox"/>	Natural Streamside plant cover degraded	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Banks collapsed/eroded	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Garbage/junk adjacent to the stream	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Foam or sheen on bank	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Mud, silt, or sand in or entering the stream	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Garbage/junk in the stream	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Yard waste on bank (clippings, leaves, etc.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Livestock in or with unrestricted access	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Actively discharging pipes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Other pipes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Ditches entering stream	<input type="checkbox"/>	<input type="checkbox"/>																																			
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<p>16. Ordinary High Water Mark Determination</p> <p>Check "P" if observed; Check "U" if used to determine OHWM</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>P</th> <th>U</th> <th></th> </tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>Natural line impressed on the bank</td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>Shelving</td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>Changes in the character of soil</td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>Destruction of terrestrial vegetation</td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>Presence of litter and debris</td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>Wracking</td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>Vegetation matted down; bent, or absent</td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>Sediment sorting</td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>Leaf litter disturbed or washed away</td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>Scour</td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>Deposition</td></tr> <tr><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td>Multiple observed flow events</td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>Bed and banks</td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>Water staining</td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>Change in plant community</td></tr> </table> <p>17. Waters Type</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td><input type="checkbox"/></td> <td>DELINEATE</td> <td><input type="checkbox"/></td> <td>RPWNN</td> </tr> <tr> <td><input type="checkbox"/></td> <td>TNW</td> <td><input type="checkbox"/></td> <td>NRPW</td> </tr> <tr> <td><input type="checkbox"/></td> <td>TNWW</td> <td><input type="checkbox"/></td> <td>NRPWW</td> </tr> <tr> <td><input type="checkbox"/></td> <td>RPW</td> <td><input type="checkbox"/></td> <td>ISOLATE</td> </tr> <tr> <td><input type="checkbox"/></td> <td>RPWWD</td> <td><input type="checkbox"/></td> <td>UPLAND</td> </tr> <tr> <td><input type="checkbox"/></td> <td></td> <td><input type="checkbox"/></td> <td>TNWRPW</td> </tr> </table> <p>18. Observed Fauna (make note of wildlife deterrents such as bird wires)</p> <p>List</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr><td><input type="checkbox"/></td><td>Invertebrates</td><td>_____</td></tr> <tr><td><input type="checkbox"/></td><td>Birds</td><td>_____</td></tr> <tr><td><input type="checkbox"/></td><td>Mammals</td><td>_____</td></tr> <tr><td><input type="checkbox"/></td><td>Reptile/Amphians</td><td>_____</td></tr> <tr><td><input type="checkbox"/></td><td>Fish</td><td>_____</td></tr> </table> <p>19. Additional Comments</p> <p>Two ephemerals from hilltop through bank erosion to bench above Willow Creek.</p>			P	U		<input type="checkbox"/>	<input type="checkbox"/>	Natural line impressed on the bank	<input type="checkbox"/>	<input type="checkbox"/>	Shelving	<input type="checkbox"/>	<input type="checkbox"/>	Changes in the character of soil	<input type="checkbox"/>	<input type="checkbox"/>	Destruction of terrestrial vegetation	<input type="checkbox"/>	<input type="checkbox"/>	Presence of litter and debris	<input type="checkbox"/>	<input type="checkbox"/>	Wracking	<input type="checkbox"/>	<input type="checkbox"/>	Vegetation matted down; bent, or absent	<input type="checkbox"/>	<input type="checkbox"/>	Sediment sorting	<input type="checkbox"/>	<input type="checkbox"/>	Leaf litter disturbed or washed away	<input type="checkbox"/>	<input type="checkbox"/>	Scour	<input type="checkbox"/>	<input type="checkbox"/>	Deposition	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Multiple observed flow events	<input type="checkbox"/>	<input type="checkbox"/>	Bed and banks	<input type="checkbox"/>	<input type="checkbox"/>	Water staining	<input type="checkbox"/>	<input type="checkbox"/>	Change in plant community	<input type="checkbox"/>	DELINEATE	<input type="checkbox"/>	RPWNN	<input type="checkbox"/>	TNW	<input type="checkbox"/>	NRPW	<input type="checkbox"/>	TNWW	<input type="checkbox"/>	NRPWW	<input type="checkbox"/>	RPW	<input type="checkbox"/>	ISOLATE	<input type="checkbox"/>	RPWWD	<input type="checkbox"/>	UPLAND	<input type="checkbox"/>		<input type="checkbox"/>	TNWRPW	<input type="checkbox"/>	Invertebrates	_____	<input type="checkbox"/>	Birds	_____	<input type="checkbox"/>	Mammals	_____	<input type="checkbox"/>	Reptile/Amphians	_____	<input type="checkbox"/>	Fish	_____													
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Stream Characterization **Date:** 9/17/2019 **Time:** 2:15pm **Site:** ORD **County:** Cook
Field ID: Stream/Ditch **Stream Name:** Higgins Creek - section 1 **Investigators:** CBM, BJH

Weather in the past 24 hours: <input type="checkbox"/> Storm (heavy rain) <input type="checkbox"/> Overcast <input checked="" type="checkbox"/> Rain (steady rain) <input checked="" type="checkbox"/> Clear/Sunny <input type="checkbox"/> Showers (intermittent rain)		3. Circle flow regime: EPHEMERAL <input type="checkbox"/> PERENNIAL <input checked="" type="checkbox"/> 4. Stream habitats present: <input type="checkbox"/> Pool(s) <input type="checkbox"/> Run(s) <input type="checkbox"/> Riffles(s) <input checked="" type="checkbox"/> N/A		9. Water Appearance: <input checked="" type="checkbox"/> clear <input type="checkbox"/> milky <input type="checkbox"/> foamy <input type="checkbox"/> turbid <input type="checkbox"/> light brown <input type="checkbox"/> dark brown <input type="checkbox"/> oily sheen <input type="checkbox"/> orange <input type="checkbox"/> none <input type="checkbox"/> greenish <input type="checkbox"/> other:		10. Water Odor: <input type="checkbox"/> sewage <input type="checkbox"/> chlorine <input type="checkbox"/> fishy <input type="checkbox"/> rotten eggs <input type="checkbox"/> organic <input checked="" type="checkbox"/> other: none																																																																																															
1. a) Approximate depth of water in stream: <input type="checkbox"/> N/A 2 ft		5. Stream Velocity: <input type="checkbox"/> fast <input checked="" type="checkbox"/> moderate <input type="checkbox"/> slow <input type="checkbox"/> N/A		11. Presence of logs or large woody debris in stream: <input checked="" type="checkbox"/> None <input type="checkbox"/> Occasional <input type="checkbox"/> Plentiful																																																																																																	
b) Approximate width of water flow: <input type="checkbox"/> N/A 50 ft		6. Nature of the particles in the stream bottom: <table border="1" style="width:100%; text-align: center;"> <tr> <th></th> <th>None</th> <th>Little</th> <th>Some</th> <th>Most</th> </tr> <tr> <td>silt/clay/mud</td> <td></td> <td></td> <td></td> <td>X</td> </tr> <tr> <td>sand</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>gravel</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>cobbles (2 - 10" diam.)</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>boulders (> 10" diam.)</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>bedrock</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>					None	Little	Some	Most	silt/clay/mud				X	sand					gravel					cobbles (2 - 10" diam.)					boulders (> 10" diam.)					bedrock																																																																	
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Last Revised: 09/25

Stream Characterization **Date:** 9/17/2019 **Time:** 2:00pm **Site:** ORD **County:** Cook
Field ID: Stream/Ditch **Stream Name:** Higgins Creek - section 2 **Investigators:** CBM, BJH

Weather in the past 24 hours: <input type="checkbox"/> Storm (heavy rain) <input type="checkbox"/> Overcast <input checked="" type="checkbox"/> Rain (steady rain) <input checked="" type="checkbox"/> Clear/Sunny <input type="checkbox"/> Showers (intermittent rain)		3. Circle flow regime: EPHEMERAL <u>PERENNIAL</u> 4. Stream habitats present: <input type="checkbox"/> Pool(s) <input type="checkbox"/> Run(s) <input type="checkbox"/> Riffles(s) <input checked="" type="checkbox"/> N/A		9. Water Appearance: <input checked="" type="checkbox"/> clear <input type="checkbox"/> milky <input type="checkbox"/> foamy <input type="checkbox"/> turbid <input type="checkbox"/> light brown <input type="checkbox"/> dark brown <input type="checkbox"/> oily sheen <input type="checkbox"/> orange <input type="checkbox"/> none <input type="checkbox"/> greenish <input type="checkbox"/> other:		10. Water Odor: <input type="checkbox"/> sewage <input type="checkbox"/> chlorine <input type="checkbox"/> fishy <input type="checkbox"/> rotten eggs <input type="checkbox"/> organic <input checked="" type="checkbox"/> other: none																																																																																																																																																	
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Stream Characterization **Date:** 8/12/2019 **Time:** 11:45 AM **Site:** ORD **County:** Cook
Field ID: Stream/Ditch **Stream Name:** Higgins Creek - Section 3 **Investigators:** BJH

<p>Weather in the past 24 hours:</p> <p><input type="checkbox"/> Storm (heavy rain) <input checked="" type="checkbox"/> Overcast</p> <p><input type="checkbox"/> Rain (steady rain) <input type="checkbox"/> Clear/Sunny</p> <p><input type="checkbox"/> Showers (intermittent rain)</p>	<p>3. Circle flow regime: EPHEMERAL <u>PERENNIAL</u></p> <p>4. Stream habitats present:</p> <p><input type="checkbox"/> Pool(s) <input checked="" type="checkbox"/> Run(s)</p> <p><input checked="" type="checkbox"/> Riffles(s) <input type="checkbox"/> N/A</p>	<p>9. Water Appearance:</p> <p><input checked="" type="checkbox"/> clear</p> <p><input type="checkbox"/> milky</p> <p><input type="checkbox"/> foamy</p> <p><input type="checkbox"/> turbid</p> <p><input type="checkbox"/> light brown</p> <p><input type="checkbox"/> dark brown</p> <p><input type="checkbox"/> oily sheen</p> <p><input type="checkbox"/> orange <input type="checkbox"/> none</p> <p><input type="checkbox"/> greenish <input type="checkbox"/> other:</p>	<p>10. Water Odor:</p> <p><input type="checkbox"/> sewage</p> <p><input type="checkbox"/> chlorine</p> <p><input type="checkbox"/> fishy</p> <p><input type="checkbox"/> rotten eggs</p> <p><input type="checkbox"/> organic</p> <p><input checked="" type="checkbox"/> other: none</p>																																																																																																				
<p>1. a) Approximate depth of water in stream:</p> <p><input type="checkbox"/> N/A <input type="checkbox"/> 3-4 ft</p> <p>b) Approximate width of water flow:</p> <p><input type="checkbox"/> N/A <input type="checkbox"/> 35 ft</p> <p>c) Approximate width of stream: (from top of bank to top of bank)</p> <p><input type="checkbox"/> 65 ft</p> <p>d) Approximate height of banks (channel depth):</p> <p>left <input type="checkbox"/> 5 ft right <input type="checkbox"/> 5 ft</p> <p>e) Approximate depth of pool(s):</p> <p><input checked="" type="checkbox"/> N/A <input type="checkbox"/></p>	<p>5. Stream Velocity:</p> <p><input type="checkbox"/> fast <input checked="" type="checkbox"/> moderate <input type="checkbox"/> slow <input type="checkbox"/> N/A</p> <p>6. Nature of the particles in the stream bottom:</p> <table border="1" style="width:100%; text-align: center;"> <tr> <th></th> <th>None</th> <th>Little</th> <th>Some</th> <th>Most</th> </tr> <tr> <td>silt/clay/mud</td> <td></td> <td></td> <td><input checked="" type="checkbox"/></td> <td></td> </tr> <tr> <td>sand</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>gravel</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>cobbles (2 - 10" diam.)</td> <td></td> <td></td> <td><input checked="" type="checkbox"/></td> <td></td> </tr> <tr> <td>boulders (> 10" diam.)</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>bedrock</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>		None	Little	Some	Most	silt/clay/mud			<input checked="" type="checkbox"/>		sand					gravel					cobbles (2 - 10" diam.)			<input checked="" type="checkbox"/>		boulders (> 10" diam.)					bedrock					<p>11. Presence of logs or large woody debris in stream:</p> <p><input checked="" type="checkbox"/> None <input type="checkbox"/> Occasional <input type="checkbox"/> Plentiful</p> <p>12. Pick the category that best describes the extent to which vegetation <u>shades</u> the stream:</p> <table border="1" style="width:100%; text-align: center;"> <tr> <td><input type="checkbox"/> 0%</td> <td><input type="checkbox"/> 50%</td> <td><input type="checkbox"/> 100%</td> </tr> <tr> <td><input type="checkbox"/> 25%</td> <td><input type="checkbox"/> 75%</td> <td><input type="checkbox"/></td> </tr> <tr> <td></td> <td><input checked="" type="checkbox"/> other - 10%</td> <td></td> </tr> </table>		<input type="checkbox"/> 0%	<input type="checkbox"/> 50%	<input type="checkbox"/> 100%	<input type="checkbox"/> 25%	<input type="checkbox"/> 75%	<input type="checkbox"/>		<input checked="" type="checkbox"/> other - 10%																																																									
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<p>2. Plant Species Adjacent to stream (scientific name):</p> <p>Trees: <i>Fraxinus pennsylvanica</i>, <i>Betula sp.</i></p> <p>Understory:</p> <p><i>Lythrum salicaria</i>, <i>Phragmites australis</i>, <i>Lycopus americanus</i>, <i>Persicaria sp.</i> <i>Sambucus sp.</i></p>	<p>8. Facing upstream, does this stream have <u>tree</u> cover for 50 feet on the:</p> <p>left side <input checked="" type="checkbox"/> yes right side <input checked="" type="checkbox"/> yes</p> <p>What is the % cover of <u>trees</u> per side of the stream?</p> <p>left side <input type="checkbox"/> 10 % right side <input type="checkbox"/> 5 %</p> <p>Facing upstream, does this stream have <u>shrub</u> cover for 50 feet on the:</p> <p>left side <input type="checkbox"/> no right side <input checked="" type="checkbox"/> yes</p> <p>What is the % cover of <u>shrubs</u> per side of the stream?</p> <p>0% 5% Observer initials: _____</p>																																																																																																						
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Stream Characterization		Date: 7/31 & 8/2	Time:	Site: ORD TAP	County: Cook
Field ID: Stream/Ditch		Stream Name: Tributary 1: Willow Creek			Investigators: BJH, KAS

Weather in the past 24 hours: <input type="checkbox"/> Storm (heavy rain) <input type="checkbox"/> Overcast <input type="checkbox"/> Rain (steady rain) <input type="checkbox"/> Clear/Sunny <input checked="" type="checkbox"/> Showers (intermittent rain)	3. Circle flow regime: EPHEMERAL PERENNIAL <input checked="" type="checkbox"/> INTERMITTENT	9. Water Appearance: <input checked="" type="checkbox"/> clear <input type="checkbox"/> milky <input type="checkbox"/> foamy <input type="checkbox"/> turbid <input type="checkbox"/> light brown <input type="checkbox"/> dark brown <input type="checkbox"/> oily sheen <input type="checkbox"/> orange <input type="checkbox"/> none <input type="checkbox"/> greenish <input type="checkbox"/> other:																																			
1. a) Approximate depth of water in stream: <input type="checkbox"/> N/A <input type="checkbox"/> 4-12 inches b) Approximate width of water flow: <input type="checkbox"/> N/A <input type="checkbox"/> 30 inches c) Approximate width of stream: (from top of bank to top of bank) <input type="checkbox"/> 20 feet d) Approximate height of banks (channel depth): left <input type="checkbox"/> 6 ft right <input type="checkbox"/> 6 ft e) Approximate depth of pool(s): <input type="checkbox"/> N/A <input type="checkbox"/> 4-12 inches	4. Stream habitats present: <input checked="" type="checkbox"/> Pool(s) <input type="checkbox"/> Run(s) <input type="checkbox"/> Riffles(s) <input type="checkbox"/> N/A 5. Stream Velocity: <input type="checkbox"/> fast <input type="checkbox"/> moderate <input checked="" type="checkbox"/> slow <input type="checkbox"/> N/A 6. Nature of the particles in the stream bottom: <table border="1" style="width:100%; text-align: center;"> <tr> <th></th> <th>None</th> <th>Little</th> <th>Some</th> <th>Most</th> </tr> <tr> <td>silt/clay/mud</td> <td></td> <td></td> <td>X</td> <td></td> </tr> <tr> <td>sand</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>gravel</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>cobbles (2 - 10" diam.)</td> <td></td> <td></td> <td>X</td> <td></td> </tr> <tr> <td>boulders (> 10" diam.)</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>bedrock</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>		None	Little	Some	Most	silt/clay/mud			X		sand					gravel					cobbles (2 - 10" diam.)			X		boulders (> 10" diam.)					bedrock					10. Water Odor: <input type="checkbox"/> sewage <input type="checkbox"/> chlorine <input type="checkbox"/> fishy <input type="checkbox"/> rotten eggs <input type="checkbox"/> organic <input checked="" type="checkbox"/> other: none
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2. Plant Species Adjacent to stream (scientific name): Trees: <i>Rhamnus cathartica, Salix interior, Juniperus virginiana,</i> Understory: <i>Lythrum salicaria, Typha angustifolia, Phragmites australis, Alisma subcordata, Vitis riparia, Schoenoplectus tabermontanae, Solidago semper-virens</i>	7. Presence of naturally occurring organic material in stream: <input type="checkbox"/> None <input type="checkbox"/> Occasional <input type="checkbox"/> Unknown <input checked="" type="checkbox"/> Plentiful 8. Facing upstream, does this stream have <u>tree</u> cover for 50 feet on the: left side <input checked="" type="checkbox"/> yes right side <input checked="" type="checkbox"/> yes What is the % cover of <u>trees</u> per side of the stream? left side <input type="checkbox"/> 5 % right side <input type="checkbox"/> 45 % Facing upstream, does this stream have <u>shrub</u> cover for 50 feet on the: left side <input checked="" type="checkbox"/> yes right side <input checked="" type="checkbox"/> yes What is the % cover of <u>shrubs</u> per side of the stream? 5 45 Observer initials:	11. Presence of logs or large woody debris in stream: <input checked="" type="checkbox"/> None <input type="checkbox"/> Occasional <input type="checkbox"/> Plentiful 12. Pick the category that best describes the extent to which vegetation <u>shades</u> the stream: <input type="checkbox"/> 0% <input checked="" type="checkbox"/> 50% <input type="checkbox"/> 100% <input type="checkbox"/> 25% <input type="checkbox"/> 75% <input type="checkbox"/> other - % 13. Pick the description that best fits the stream bank and the channel (facing upstream): a) Stream bank: <table border="1" style="width:100%; text-align: center;"> <tr> <th>Left</th> <th></th> <th>Right</th> </tr> <tr> <td></td> <td>Vertical/undercut</td> <td></td> </tr> <tr> <td></td> <td>Steeply sloping (>30°)</td> <td></td> </tr> <tr> <td>X</td> <td>Gradual/No slope (<30°)</td> <td>X</td> </tr> </table> b) Shape of the channel: <table border="1" style="width:100%; text-align: center;"> <tr> <td></td> <td>Narrow, Deep</td> <td>Wide, Deep</td> </tr> <tr> <td>X</td> <td>Narrow, Shallow</td> <td>Wide, Shallow</td> </tr> </table>	Left		Right		Vertical/undercut			Steeply sloping (>30°)		X	Gradual/No slope (<30°)	X		Narrow, Deep	Wide, Deep	X	Narrow, Shallow	Wide, Shallow																	
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14. Describe the streamside cover. Check "P" if present, "C" if common a) Along the water's edge and stream bank only (facing upstream): <table border="1" style="width:100%; text-align: center;"> <tr> <th colspan="2">Left</th> <th></th> <th colspan="2">Right</th> </tr> <tr> <th>P</th> <th>C</th> <th></th> <th>P</th> <th>C</th> </tr> <tr><td>X</td><td></td><td>Trees</td><td>X</td><td></td></tr> <tr><td>X</td><td></td><td>Bushes, Shrubs</td><td>X</td><td></td></tr> <tr><td>X</td><td>X</td><td>Tall grasses, forbs</td><td>X</td><td>X</td></tr> <tr><td></td><td></td><td>Lawn, maintained landscape</td><td></td><td></td></tr> <tr><td>X</td><td>X</td><td>Boulders/Rocks/Rip Rap</td><td>X</td><td>X</td></tr> <tr><td></td><td></td><td>Gravel/Sand</td><td></td><td></td></tr> <tr><td></td><td></td><td>Bare Soil</td><td></td><td></td></tr> <tr><td></td><td></td><td>Pavement, Structures, Gabions</td><td></td><td></td></tr> </table> b) From the top of the streambank out to 50 feet: <table border="1" style="width:100%; text-align: center;"> <tr> <th colspan="2">Left</th> <th></th> <th colspan="2">Right</th> </tr> <tr> <th>P</th> <th>C</th> <th></th> <th>P</th> <th>C</th> </tr> <tr><td>X</td><td></td><td>Trees</td><td>X</td><td></td></tr> <tr><td>X</td><td></td><td>Bushes, Shrubs</td><td>X</td><td></td></tr> <tr><td>X</td><td>X</td><td>Tall grasses, forbs</td><td>X</td><td>X</td></tr> <tr><td>X</td><td></td><td>Lawn, maintained landscape</td><td>X</td><td></td></tr> <tr><td></td><td></td><td>Boulders/Rocks</td><td></td><td></td></tr> <tr><td></td><td></td><td>Gravel/Sand</td><td></td><td></td></tr> <tr><td></td><td></td><td>Bare Soil</td><td></td><td></td></tr> <tr><td></td><td></td><td>Pavement, Structures</td><td></td><td></td></tr> </table>	Left			Right		P	C		P	C	X		Trees	X		X		Bushes, Shrubs	X		X	X	Tall grasses, forbs	X	X			Lawn, maintained landscape			X	X	Boulders/Rocks/Rip Rap	X	X			Gravel/Sand					Bare Soil					Pavement, Structures, Gabions			Left			Right		P	C		P	C	X		Trees	X		X		Bushes, Shrubs	X		X	X	Tall grasses, forbs	X	X	X		Lawn, maintained landscape	X				Boulders/Rocks					Gravel/Sand					Bare Soil					Pavement, Structures			16. Ordinary High Water Mark Determination Check "P" if observed; Check "U" if used to determine OHWM <table border="1" style="width:100%; text-align: center;"> <tr> <th>P</th> <th>U</th> <th></th> </tr> <tr><td></td><td></td><td>Natural line impressed on the bank</td></tr> <tr><td></td><td></td><td>Shelving</td></tr> <tr><td></td><td></td><td>Changes in the character of soil</td></tr> <tr><td></td><td></td><td>Destruction of terrestrial vegetation</td></tr> <tr><td></td><td></td><td>Presence of litter and debris</td></tr> <tr><td></td><td></td><td>Wracking</td></tr> <tr><td></td><td></td><td>Vegetation matted down; bent, or absent</td></tr> <tr><td></td><td></td><td>Sediment sorting</td></tr> <tr><td></td><td></td><td>Leaf litter disturbed or washed away</td></tr> <tr><td></td><td></td><td>Scour</td></tr> <tr><td></td><td></td><td>Deposition</td></tr> <tr><td>X</td><td>X</td><td>Multiple observed flow events</td></tr> <tr><td></td><td></td><td>Bed and banks</td></tr> <tr><td>X</td><td>X</td><td>Water staining</td></tr> <tr><td></td><td></td><td>Change in plant community</td></tr> </table>	P	U				Natural line impressed on the bank			Shelving			Changes in the character of soil			Destruction of terrestrial vegetation			Presence of litter and debris			Wracking			Vegetation matted down; bent, or absent			Sediment sorting			Leaf litter disturbed or washed away			Scour			Deposition	X	X	Multiple observed flow events			Bed and banks	X	X	Water staining			Change in plant community
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Datasheet entered by: KAS	Last Revised: 08/19
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Stream Characterization **Date:** 8/27/2019 **Time:** 5:00pm **Site:** ORD **County:** Cook
Field ID: Stream/Ditch **Stream Name:** Tributary 2: Willow Creek **Investigators:** CBM, BJH

Weather in the past 24 hours: <input checked="" type="checkbox"/> Storm (heavy rain) <input type="checkbox"/> Overcast <input type="checkbox"/> Rain (steady rain) <input checked="" type="checkbox"/> Clear/Sunny <input type="checkbox"/> Showers (intermittent rain)		3. Circle flow regime: EPHEMERAL <u>PERENNIAL</u> 4. Stream habitats present: <input type="checkbox"/> Pool(s) <input type="checkbox"/> Run(s) <input type="checkbox"/> Riffles(s) <input checked="" type="checkbox"/> N/A		9. Water Appearance: <input checked="" type="checkbox"/> clear <input type="checkbox"/> milky <input type="checkbox"/> foamy <input type="checkbox"/> turbid <input type="checkbox"/> light brown <input type="checkbox"/> dark brown <input type="checkbox"/> oily sheen <input type="checkbox"/> orange <input type="checkbox"/> none <input type="checkbox"/> greenish <input type="checkbox"/> other:		10. Water Odor: <input type="checkbox"/> sewage <input type="checkbox"/> chlorine <input type="checkbox"/> fishy <input type="checkbox"/> rotten eggs <input type="checkbox"/> organic <input checked="" type="checkbox"/> other: none																																																																																																																																																	
1. a) Approximate depth of water in stream: <input type="checkbox"/> N/A 0.5 to 1 ft b) Approximate width of water flow: <input type="checkbox"/> N/A 15ft c) Approximate width of stream: (from top of bank to top of bank) 35-40ft d) Approximate height of banks (channel depth): left 25ft right 25ft e) Approximate depth of pool(s): <input checked="" type="checkbox"/> N/A <input type="checkbox"/>		5. Stream Velocity: <input type="checkbox"/> fast <input type="checkbox"/> moderate <input checked="" type="checkbox"/> slow <input type="checkbox"/> N/A 6. Nature of the particles in the stream bottom: <table border="1" style="width:100%; text-align: center;"> <tr> <th></th> <th>None</th> <th>Little</th> <th>Some</th> <th>Most</th> </tr> <tr> <td>silt/clay/mud</td> <td></td> <td></td> <td></td> <td>X</td> </tr> <tr> <td>sand</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>gravel</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>cobbles (2 - 10" diam.)</td> <td></td> <td></td> <td>X</td> <td></td> </tr> <tr> <td>boulders (> 10" diam.)</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>bedrock</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>			None	Little	Some	Most	silt/clay/mud				X	sand					gravel					cobbles (2 - 10" diam.)			X		boulders (> 10" diam.)					bedrock					11. Presence of logs or large woody debris in stream: <input checked="" type="checkbox"/> None <input type="checkbox"/> Occasional <input type="checkbox"/> Plentiful 12. Pick the category that best describes the extent to which vegetation shades the stream: <input type="checkbox"/> 0% <input type="checkbox"/> 50% <input type="checkbox"/> 100% <input checked="" type="checkbox"/> 25% <input type="checkbox"/> 75% <input type="checkbox"/> other - %																																																																																																																
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Stream Characterization **Date:** 7/17/2019 **Time:** PM **Site:** ORD WH East **County:** Cook
Field ID: Stream/Ditch **Stream Name:** Tributary 3: Willow Creek **Investigators:** BJH, KAS

Weather in the past 24 hours: <input type="checkbox"/> Storm (heavy rain) <input checked="" type="checkbox"/> Overcast <input type="checkbox"/> Rain (steady rain) <input type="checkbox"/> Clear/Sunny <input checked="" type="checkbox"/> Showers (intermittent rain)		3. Circle flow regime: EPHEMERAL PERENNIAL INTERMITTENT		9. Water Appearance: <input type="checkbox"/> clear <input type="checkbox"/> milky <input type="checkbox"/> foamy <input checked="" type="checkbox"/> turbid <input type="checkbox"/> light brown <input type="checkbox"/> dark brown <input type="checkbox"/> oily sheen <input type="checkbox"/> orange <input type="checkbox"/> none <input type="checkbox"/> greenish <input type="checkbox"/> other:		10. Water Odor: <input type="checkbox"/> sewage <input type="checkbox"/> chlorine <input type="checkbox"/> fishy <input type="checkbox"/> rotten eggs <input type="checkbox"/> organic <input checked="" type="checkbox"/> other: none																																																																																																																																										
1. a) Approximate depth of water in stream: <input type="checkbox"/> N/A <input type="checkbox"/> 6-8 inches		4. Stream habitats present: <input type="checkbox"/> Pool(s) <input checked="" type="checkbox"/> Run(s) <input type="checkbox"/> Riffles(s) <input type="checkbox"/> N/A		11. Presence of logs or large woody debris in stream: <input type="checkbox"/> None <input checked="" type="checkbox"/> Occasional <input type="checkbox"/> Plentiful		12. Pick the category that best describes the extent to which vegetation shades the stream: <input type="checkbox"/> 0% <input checked="" type="checkbox"/> 50% <input type="checkbox"/> 100% <input type="checkbox"/> 25% <input type="checkbox"/> 75% <input type="checkbox"/> other - %																																																																																																																																										
b) Approximate width of water flow: <input type="checkbox"/> N/A <input type="checkbox"/> 15 feet		5. Stream Velocity: <input type="checkbox"/> fast <input type="checkbox"/> moderate <input checked="" type="checkbox"/> slow <input type="checkbox"/> N/A		13. Pick the description that best fits the stream bank and the channel (facing upstream): a) Stream bank: Left <input type="checkbox"/> Vertical/undercut <input type="checkbox"/> Right <input checked="" type="checkbox"/> Steeply sloping (>30°) <input checked="" type="checkbox"/> <input type="checkbox"/> Gradual/No slope (<30°)		b) Shape of the channel: <input type="checkbox"/> Narrow, Deep <input type="checkbox"/> Wide, Deep <input checked="" type="checkbox"/> Narrow, Shallow <input type="checkbox"/> Wide, Shallow																																																																																																																																										
c) Approximate width of stream: (from top of bank to top of bank) <input type="checkbox"/> 25 feet		6. Nature of the particles in the stream bottom: <table border="1"> <thead> <tr> <th></th> <th>None</th> <th>Little</th> <th>Some</th> <th>Most</th> </tr> </thead> <tbody> <tr> <td>silt/clay/mud</td> <td></td> <td></td> <td></td> <td>X</td> </tr> <tr> <td>sand</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>gravel</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>cobbles (2 - 10" diam.)</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>boulders (> 10" diam.)</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>bedrock</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>			None	Little	Some	Most	silt/clay/mud				X	sand					gravel					cobbles (2 - 10" diam.)					boulders (> 10" diam.)					bedrock					7. Presence of naturally occurring organic material in stream: <input type="checkbox"/> None <input checked="" type="checkbox"/> Occasional <input type="checkbox"/> Unknown <input type="checkbox"/> Plentiful		14. Describe the streamside cover. Check "P" if present, "C" if common a) Along the water's edge and stream bank only (facing upstream): <table border="1"> <thead> <tr> <th colspan="2">Left</th> <th></th> <th colspan="2">Right</th> </tr> <tr> <th>P</th> <th>C</th> <th></th> <th>P</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>X</td> <td>X</td> <td>Trees</td> <td>X</td> <td>X</td> </tr> <tr> <td>X</td> <td>X</td> <td>Bushes, Shrubs</td> <td>X</td> <td>X</td> </tr> <tr> <td></td> <td></td> <td>Tall grasses, forbs</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>Lawn, maintained landscape</td> <td></td> <td></td> </tr> <tr> <td>X</td> <td>X</td> <td>Boulders/Rocks/Rip Rap</td> <td>X</td> <td>X</td> </tr> <tr> <td></td> <td></td> <td>Gravel/Sand</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>Bare Soil</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>Pavement, Structures, Gabions</td> <td></td> <td></td> </tr> </tbody> </table>		Left			Right		P	C		P	C	X	X	Trees	X	X	X	X	Bushes, Shrubs	X	X			Tall grasses, forbs					Lawn, maintained landscape			X	X	Boulders/Rocks/Rip Rap	X	X			Gravel/Sand					Bare Soil					Pavement, Structures, Gabions			b) From the top of the streambank out to 50 feet: <table border="1"> <thead> <tr> <th colspan="2">Left</th> <th></th> <th colspan="2">Right</th> </tr> <tr> <th>P</th> <th>C</th> <th></th> <th>P</th> <th>C</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td>Trees</td> <td>X</td> <td>X</td> </tr> <tr> <td></td> <td></td> <td>Bushes, Shrubs</td> <td>X</td> <td>X</td> </tr> <tr> <td>X</td> <td>X</td> <td>Tall grasses, forbs</td> <td></td> <td></td> </tr> <tr> <td>X</td> <td>X</td> <td>Lawn, maintained landscape</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>Boulders/Rocks</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>Gravel/Sand</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>Bare Soil</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>Pavement, Structures</td> <td></td> <td></td> </tr> </tbody> </table>		Left			Right		P	C		P	C			Trees	X	X			Bushes, Shrubs	X	X	X	X	Tall grasses, forbs			X	X	Lawn, maintained landscape					Boulders/Rocks					Gravel/Sand					Bare Soil					Pavement, Structures		
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19. Additional Comments flows south to WH East from a culvert under interstate bridge present north of confluence with WH East																																																																																																																																																
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Stream Characterization		Date: 8/27/2019	Time: 11:55 AM	Site: ORD	County: DuPage
Field ID: Stream/Ditch		Stream Name: Willow Creek - Section 1		Investigators: CBM, BJH	

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16. Ordinary High Water Mark Determination Check "P" if observed; Check "U" if used to determine OHWM <table style="width:100%;"> <tr> <td style="width:33%;">P U</td> <td style="width:33%;"></td> <td style="width:33%;"></td> </tr> <tr><td><input type="checkbox"/></td><td>Natural line impressed on the bank</td><td><input type="checkbox"/></td></tr> <tr><td><input type="checkbox"/></td><td>Shelving</td><td><input type="checkbox"/></td></tr> <tr><td><input type="checkbox"/></td><td>Changes in the character of soil</td><td><input type="checkbox"/></td></tr> <tr><td><input type="checkbox"/></td><td>Destruction of terrestrial vegetation</td><td><input type="checkbox"/></td></tr> <tr><td><input type="checkbox"/></td><td>Presence of litter and debris</td><td><input type="checkbox"/></td></tr> <tr><td><input type="checkbox"/></td><td>Wracking</td><td><input type="checkbox"/></td></tr> <tr><td><input type="checkbox"/></td><td>Vegetation matted down; bent, or absent</td><td><input type="checkbox"/></td></tr> <tr><td><input type="checkbox"/></td><td>Sediment sorting</td><td><input type="checkbox"/></td></tr> <tr><td><input type="checkbox"/></td><td>Leaf litter disturbed or washed away</td><td><input type="checkbox"/></td></tr> <tr><td><input type="checkbox"/></td><td>Scour</td><td><input type="checkbox"/></td></tr> <tr><td><input type="checkbox"/></td><td>Deposition</td><td><input type="checkbox"/></td></tr> <tr><td><input type="checkbox"/></td><td>Multiple observed flow events</td><td><input type="checkbox"/></td></tr> <tr><td><input type="checkbox"/></td><td>Bed and banks</td><td><input type="checkbox"/></td></tr> <tr><td><input type="checkbox"/></td><td>Water staining</td><td><input type="checkbox"/></td></tr> <tr><td><input type="checkbox"/></td><td>Change in plant community</td><td><input type="checkbox"/></td></tr> <tr><td><input checked="" type="checkbox"/></td><td>Structures</td><td><input checked="" type="checkbox"/></td></tr> </table>			P U			<input type="checkbox"/>	Natural line impressed on the bank	<input type="checkbox"/>	<input type="checkbox"/>	Shelving	<input type="checkbox"/>	<input type="checkbox"/>	Changes in the character of soil	<input type="checkbox"/>	<input type="checkbox"/>	Destruction of terrestrial vegetation	<input type="checkbox"/>	<input type="checkbox"/>	Presence of litter and debris	<input type="checkbox"/>	<input type="checkbox"/>	Wracking	<input type="checkbox"/>	<input type="checkbox"/>	Vegetation matted down; bent, or absent	<input type="checkbox"/>	<input type="checkbox"/>	Sediment sorting	<input type="checkbox"/>	<input type="checkbox"/>	Leaf litter disturbed or washed away	<input type="checkbox"/>	<input type="checkbox"/>	Scour	<input type="checkbox"/>	<input type="checkbox"/>	Deposition	<input type="checkbox"/>	<input type="checkbox"/>	Multiple observed flow events	<input type="checkbox"/>	<input type="checkbox"/>	Bed and banks	<input type="checkbox"/>	<input type="checkbox"/>	Water staining	<input type="checkbox"/>	<input type="checkbox"/>	Change in plant community	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Structures	<input checked="" type="checkbox"/>
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18. Observed Fauna (make note of wildlife deterrents such as bird wires) List <input type="checkbox"/> Invertebrates <input checked="" type="checkbox"/> Birds <u>bird wire present</u> <input type="checkbox"/> Mammals <input type="checkbox"/> Reptile/Amphians <input type="checkbox"/> Fish																																																					
19. Additional Comments Double box culverts at each end 10ft x 15ft; concrete walls																																																					
Datasheet entered by:		Last Revised: 09/25																																																			

County: DuPage

Investigators: BJH, CBM

Weather in the past 24 hours: <input type="checkbox"/> Storm (heavy rain) <input type="checkbox"/> Overcast <input checked="" type="checkbox"/> Rain (steady rain) <input checked="" type="checkbox"/> Clear/Sunny <input type="checkbox"/> Showers (intermittent rain)		3. Circle flow regime: EPHEMERAL PERENNIAL		9. Water Appearance: <input type="checkbox"/> clear <input type="checkbox"/> sewage <input type="checkbox"/> milky <input type="checkbox"/> chlorine <input type="checkbox"/> foamy <input type="checkbox"/> fishy <input type="checkbox"/> turbid <input type="checkbox"/> rotten eggs <input checked="" type="checkbox"/> light brown <input type="checkbox"/> organic <input type="checkbox"/> dark brown <input type="checkbox"/> other: <input type="checkbox"/> oily sheen <input checked="" type="checkbox"/> none <input type="checkbox"/> orange <input type="checkbox"/> none <input type="checkbox"/> greenish <input type="checkbox"/> <input type="checkbox"/> other:																																															
1. a) Approximate depth of water in stream: <input type="text"/> N/A <input type="text"/> 2-3 ft		4. Stream habitats present: <input type="checkbox"/> Pool(s) <input type="checkbox"/> Run(s) <input type="checkbox"/> Riffles(s) <input checked="" type="checkbox"/> N/A		10. Water Odor: <input type="checkbox"/> sewage <input type="checkbox"/> chlorine <input type="checkbox"/> fishy <input type="checkbox"/> rotten eggs <input type="checkbox"/> organic <input type="checkbox"/> other: <input checked="" type="checkbox"/> none																																															
b) Approximate width of water flow: <input type="text"/> N/A <input type="text"/> approx 110 ft		5. Stream Velocity: <input type="text"/> fast <input type="text"/> moderate <input checked="" type="checkbox"/> slow <input type="text"/> N/A		11. Presence of logs or large woody debris in stream: <input checked="" type="checkbox"/> None <input type="checkbox"/> Occasional <input type="checkbox"/> Plentiful																																															
c) Approximate width of stream: (from top of bank to top of bank) <input type="text"/> approx 110 ft		6. Nature of the particles in the stream bottom: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th></th> <th>None</th> <th>Little</th> <th>Some</th> <th>Most</th> </tr> <tr> <td>silt/clay/mud</td> <td></td> <td></td> <td>X</td> <td></td> </tr> <tr> <td>sand</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>gravel</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>cobbles (2 - 10" diam.)</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>boulders (> 10" diam.)</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>bedrock</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>			None	Little	Some	Most	silt/clay/mud			X		sand					gravel					cobbles (2 - 10" diam.)					boulders (> 10" diam.)					bedrock					12. Pick the category that best describes the extent to which vegetation shades the stream: <input checked="" type="checkbox"/> 0% <input type="checkbox"/> 50% <input type="checkbox"/> 100% <input type="checkbox"/> 25% <input type="checkbox"/> 75% <input type="checkbox"/> other - ____%												
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d) Approximate height of banks (channel depth): left <input type="text"/> 20 ft right <input type="text"/> 20 ft		7. Presence of naturally occurring organic material in stream: vegetation throughout <input type="checkbox"/> None <input type="checkbox"/> Occasional <input checked="" type="checkbox"/> Plentiful		13. Pick the description that best fits the stream bank and the channel (facing upstream): a) Stream bank: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>Left</th> <th></th> <th>Right</th> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td>Vertical/undercut</td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/></td> <td>Steeply sloping (>30°)</td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/></td> <td>Gradual/No slope (<30°)</td> <td><input type="checkbox"/></td> </tr> </table>		Left		Right	<input checked="" type="checkbox"/>	Vertical/undercut	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Steeply sloping (>30°)	<input type="checkbox"/>	<input type="checkbox"/>	Gradual/No slope (<30°)	<input type="checkbox"/>																																		
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e) Approximate depth of pool(s): <input checked="" type="checkbox"/> N/A <input type="text"/>		8. Facing upstream, does this stream have tree cover for 50 feet on the: left side <input type="text"/> no right side <input type="text"/> no What is the % cover of trees per side of the stream? left side <input type="text"/> 0 % right side <input type="text"/> 0 % Facing upstream, does this stream have shrub cover for 50 feet on the: left side <input type="text"/> no right side <input type="text"/> no What is the % cover of shrubs per side of the stream? Observer initials: <input type="text"/>		b) Shape of the channel: <input checked="" type="checkbox"/> Narrow, Deep <input type="checkbox"/> Wide, Deep <input type="checkbox"/> Narrow, Shallow <input type="checkbox"/> Wide, Shallow																																															
2. Plant Species Adjacent to stream (scientific name): Trees: <input type="text"/> <input type="text"/> Understory: <i>Typha angustifolia, Phragmites australis,</i> <i>Sagittaria cuneata, Lythrum salicaria,</i> <i>Potamogeton sp.,</i> <input type="text"/> <input type="text"/>																																																			
14. Describe the streamside cover. Check "P" if present, "C" if common a) Along the water's edge and stream bank only (facing upstream): <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>Left</th> <th></th> <th>Right</th> </tr> <tr> <th>P</th> <th>C</th> <th>P C</th> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> </tr> </table>						Left		Right	P	C	P C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																
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Stream Characterization		Date: 8/27/2019	Time: 2:00pm	Site:	County: Cook
Field ID: Stream/Ditch		Stream Name: Willow Creek - Section 3			Investigators: BJH, CBM

Weather in the past 24 hours: <input checked="" type="checkbox"/> Storm (heavy rain) <input type="checkbox"/> Overcast <input type="checkbox"/> Rain (steady rain) <input checked="" type="checkbox"/> Clear/Sunny <input type="checkbox"/> Showers (intermittent rain)	3. Circle flow regime: EPHEMERAL <input checked="" type="checkbox"/> PERENNIAL INTERMITTENT 4. Stream habitats present: <input type="checkbox"/> Pool(s) <input type="checkbox"/> Run(s) <input type="checkbox"/> Riffles(s) <input checked="" type="checkbox"/> N/A	9. Water Appearance: <input type="checkbox"/> clear <input type="checkbox"/> milky <input type="checkbox"/> foamy <input type="checkbox"/> turbid <input checked="" type="checkbox"/> light brown <input type="checkbox"/> dark brown <input type="checkbox"/> oily sheen <input type="checkbox"/> orange <input type="checkbox"/> none <input type="checkbox"/> greenish <input type="checkbox"/> other:	10. Water Odor: <input type="checkbox"/> sewage <input type="checkbox"/> chlorine <input type="checkbox"/> fishy <input type="checkbox"/> rotten eggs <input type="checkbox"/> organic <input checked="" type="checkbox"/> other: none																																																																																																				
1. a) Approximate depth of water in stream: <input type="checkbox"/> N/A <input type="checkbox"/> 2-3 ft b) Approximate width of water flow: <input type="checkbox"/> N/A <input type="checkbox"/> 30 ft c) Approximate width of stream: (from top of bank to top of bank) <input type="checkbox"/> 40 ft d) Approximate height of banks (channel depth): left <input type="checkbox"/> 3 ft right <input type="checkbox"/> 2 ft e) Approximate depth of pool(s): <input checked="" type="checkbox"/> N/A	5. Stream Velocity: <input type="checkbox"/> fast <input checked="" type="checkbox"/> moderate <input type="checkbox"/> slow <input type="checkbox"/> N/A 6. Nature of the particles in the stream bottom: <table border="1" style="width:100%; text-align: center;"> <tr> <th></th> <th>None</th> <th>Little</th> <th>Some</th> <th>Most</th> </tr> <tr> <td>silt/clay/mud</td> <td></td> <td></td> <td></td> <td>X</td> </tr> <tr> <td>sand</td> <td></td> <td></td> <td>X</td> <td></td> </tr> <tr> <td>cobbles (2 - 10" diam.)</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>boulders (> 10" diam.)</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>bedrock</td> <td></td> <td></td> <td></td> <td></td> </tr> </table> 7. Presence of naturally occurring organic material in stream: <input type="checkbox"/> None <input type="checkbox"/> Occasional <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Plentiful		None	Little	Some	Most	silt/clay/mud				X	sand			X		cobbles (2 - 10" diam.)					boulders (> 10" diam.)					bedrock					11. Presence of logs or large woody debris in stream: <input checked="" type="checkbox"/> None <input type="checkbox"/> Occasional <input type="checkbox"/> Plentiful 12. Pick the category that best describes the extent to which vegetation shades the stream: <input checked="" type="checkbox"/> 0% <input type="checkbox"/> 50% <input type="checkbox"/> 100% <input type="checkbox"/> 25% <input type="checkbox"/> 75% <input type="checkbox"/> other - %																																																																							
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2. Plant Species Adjacent to stream (scientific name): Trees: <input type="checkbox"/> N/A Understory: <i>Phalaris arundinacea, Phragmites australis,</i> <i>Schoenoplectus tabermontanae,</i> <i>Typha angustifolia, Lythrum salicaria</i> <i>Dipsacus laciniatus, Daucus carota (upland)</i>	8. Facing upstream, does this stream have <u>tree</u> cover for 50 feet on the: left side <input type="checkbox"/> no right side <input type="checkbox"/> no What is the % cover of <u>trees</u> per side of the stream? left side <input type="checkbox"/> 0 % right side <input type="checkbox"/> 0 % Facing upstream, does this stream have <u>shrub</u> cover for 50 feet on the: left side <input type="checkbox"/> no right side <input type="checkbox"/> no What is the % cover of <u>shrubs</u> per side of the stream? Observer initials: BJH																																																																																																						
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18. Observed Fauna (make note of wildlife deterrents such as bird wires) List <input checked="" type="checkbox"/> Invertebrates <u>dragonflies</u> <input type="checkbox"/> Birds <input type="checkbox"/> Mammals <input checked="" type="checkbox"/> Reptile/Amphians <u>frog</u> <input type="checkbox"/> Fish																																																																																																							
19. Additional Comments double box culverts at north and south ends																																																																																																							
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Stream Characterization

Date: 7/29/2019 Time: 9am Site: ORD TAP

County: Cook

Field ID Stream/Ditch

Stream Name: Willow Creek - Section 4

Investigators: BJH, CBM, KAS

Weather in the past 24 hours: <input type="checkbox"/> Storm (heavy rain) <input type="checkbox"/> Overcast <input type="checkbox"/> Rain (steady rain) <input checked="" type="checkbox"/> Clear/Sunny <input checked="" type="checkbox"/> Showers (intermittent rain)		3. Circle flow regime: EPHEMERAL <u>PERENNIAL</u> 4. Stream habitats present: <input type="checkbox"/> Pool(s) <input checked="" type="checkbox"/> Run(s) <input checked="" type="checkbox"/> Riffles(s) <input type="checkbox"/> N/A		9. Water Appearance: <input checked="" type="checkbox"/> clear <input type="checkbox"/> milky <input type="checkbox"/> foamy <input type="checkbox"/> turbid <input type="checkbox"/> light brown <input type="checkbox"/> dark brown <input type="checkbox"/> oily sheen <input type="checkbox"/> orange <input type="checkbox"/> none <input type="checkbox"/> greenish <input type="checkbox"/> other:		10. Water Odor: <input type="checkbox"/> sewage <input type="checkbox"/> chlorine <input type="checkbox"/> fishy <input type="checkbox"/> rotten eggs <input type="checkbox"/> organic <input checked="" type="checkbox"/> other: none	
1. a) Approximate depth of water in stream: <input type="checkbox"/> N/A <input type="checkbox"/> 12-24 inches b) Approximate width of water flow: <input type="checkbox"/> N/A <input type="checkbox"/> 80 feet c) Approximate width of stream: (from top of bank to top of bank) d) Approximate height of banks (channel depth): left <input type="checkbox"/> 30 ft right <input type="checkbox"/> 30 ft e) Approximate depth of pool(s): <input type="checkbox"/> N/A <input type="checkbox"/> 12-24 inches		5. Stream Velocity: <input type="checkbox"/> fast <input type="checkbox"/> moderate <input checked="" type="checkbox"/> slow <input type="checkbox"/> N/A 6. Nature of the particles in the stream bottom: silt/clay/mud sand gravel cobbles (2 - 10" diam.) boulders (> 10" diam.) bedrock None Little Some Most <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		11. Presence of logs or large woody debris in stream: <input checked="" type="checkbox"/> None <input type="checkbox"/> Occasional <input type="checkbox"/> Plentiful 12. Pick the category that best describes the extent to which vegetation <u>shades</u> the stream: <input checked="" type="checkbox"/> 0% <input type="checkbox"/> 50% <input type="checkbox"/> 100% <input type="checkbox"/> 25% <input type="checkbox"/> 75% <input type="checkbox"/> other - %			
2. Plant Species Adjacent to stream (scientific name): Trees: Understory: <i>Phragmites australis, Lythrum salicaria, Solidago sempervirens, Dipsacus laciniatus, Juncus sp.</i>		8. Facing upstream, does this stream have <u>tree</u> cover for 50 feet on the: left side <input type="checkbox"/> No right side <input type="checkbox"/> No What is the % cover of <u>trees</u> per side of the stream? left side <input type="checkbox"/> % right side <input type="checkbox"/> % Facing upstream, does this stream have <u>shrub</u> cover for 50 feet on the: left side <input type="checkbox"/> No right side <input type="checkbox"/> No What is the % cover of <u>shrubs</u> per side of the stream? Observer initials:		13. Pick the description that best fits the stream bank and the channel (facing upstream): a) Stream bank: Left <input checked="" type="checkbox"/> Vertical/undercut Right <input checked="" type="checkbox"/> <input type="checkbox"/> Steeply sloping (>30°) <input type="checkbox"/> Gradual/No slope (<30°) b) Shape of the channel: <input type="checkbox"/> Narrow, Deep <input type="checkbox"/> Wide, Deep <input checked="" type="checkbox"/> Narrow, Shallow <input checked="" type="checkbox"/> Wide, Shallow			
14. Describe the streamside cover. Check "P" if present, "C" if common a) Along the water's edge and stream bank only (facing upstream): Left P C Right P C <input type="checkbox"/> <input type="checkbox"/> Trees <input checked="" type="checkbox"/> <input type="checkbox"/> Bushes, Shrubs <input type="checkbox"/> <input type="checkbox"/> Tall grasses, forbs <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> Lawn, maintained landscape <input type="checkbox"/> <input type="checkbox"/> Boulders/Rocks/Rip Rap <input type="checkbox"/> <input type="checkbox"/> Gravel/Sand <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> Bare Soil <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> Pavement, Structures, Gabions b) From the top of the streambank out to 50 feet: Left P C Right P C <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> Trees <input type="checkbox"/> <input type="checkbox"/> Bushes, Shrubs <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> Tall grasses, forbs <input type="checkbox"/> <input type="checkbox"/> Lawn, maintained landscape <input type="checkbox"/> <input type="checkbox"/> Boulders/Rocks <input type="checkbox"/> <input type="checkbox"/> Gravel/Sand <input type="checkbox"/> <input type="checkbox"/> Bare Soil <input type="checkbox"/> <input type="checkbox"/> Pavement, Structures				16. Ordinary High Water Mark Determination Check "P" if observed; Check "U" if used to determine OHWM P U <input type="checkbox"/> <input type="checkbox"/> Natural line impressed on the bank <input type="checkbox"/> <input type="checkbox"/> Shelving <input type="checkbox"/> <input type="checkbox"/> Changes in the character of soil <input type="checkbox"/> <input type="checkbox"/> Destruction of terrestrial vegetation <input type="checkbox"/> <input type="checkbox"/> Presence of litter and debris <input type="checkbox"/> <input type="checkbox"/> Wracking <input checked="" type="checkbox"/> <input type="checkbox"/> Vegetation matted down; bent, or absent <input type="checkbox"/> <input type="checkbox"/> Sediment sorting <input type="checkbox"/> <input type="checkbox"/> Leaf litter disturbed or washed away <input type="checkbox"/> <input type="checkbox"/> Scour <input type="checkbox"/> <input type="checkbox"/> Deposition <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> Multiple observed flow events <input type="checkbox"/> <input type="checkbox"/> Bed and banks <input type="checkbox"/> <input type="checkbox"/> Water staining <input type="checkbox"/> <input type="checkbox"/> Change in plant community			
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18. Observed Fauna (make note of wildlife deterrents such as bird wires) List <input type="checkbox"/> Invertebrates <input checked="" type="checkbox"/> Birds <u>great blue heron</u> <input type="checkbox"/> Mammals <input type="checkbox"/> Reptile/Amphians <input type="checkbox"/> Fish				19. Additional Comments box culverts at either end (10x10ft, 12x12ft); side walls/banks supported by gabions walls approx 30ft high; water flowing; dominated by Phragmites; area inaccessible due to fencing, offset GPS			
Datasheet entered by: KAS				Last Revised: 08/19			

Cook

Investigators: BJH, CBM

Stream Characterization **Date:** 8/12/2019 **Time:** 9:00am **Site:** ORD **County:** Cook
Field ID: Stream/Ditch **Stream Name:** Willow Creek - Section 6 **Investigators:** BJH

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Stream Characterization **Date:** 7/30/2019 **Time:** **Site:** ORD TAP **County:** Cook
Field ID: Stream/Ditch **Stream Name:** Willow Creek - Section 7 **Investigators:** BJH, CBM, KAS

Weather in the past 24 hours: <input type="checkbox"/> Storm (heavy rain) <input type="checkbox"/> Overcast <input type="checkbox"/> Rain (steady rain) <input type="checkbox"/> Clear/Sunny <input checked="" type="checkbox"/> Showers (intermittent rain)		3. Circle flow regime: EPHEMERAL <input checked="" type="checkbox"/> PERENNIAL INTERMITTENT		9. Water Appearance: <input checked="" type="checkbox"/> clear <input type="checkbox"/> milky <input type="checkbox"/> foamy <input type="checkbox"/> turbid <input type="checkbox"/> light brown <input type="checkbox"/> dark brown <input type="checkbox"/> oily sheen <input type="checkbox"/> orange <input type="checkbox"/> none <input type="checkbox"/> greenish <input type="checkbox"/> other:		10. Water Odor: <input type="checkbox"/> sewage <input type="checkbox"/> chlorine <input type="checkbox"/> fishy <input type="checkbox"/> rotten eggs <input type="checkbox"/> organic <input checked="" type="checkbox"/> other: none			
1. a) Approximate depth of water in stream: <input type="checkbox"/> N/A 6 inches to 3 ft		4. Stream habitats present: <input type="checkbox"/> Pool(s) <input checked="" type="checkbox"/> Run(s) <input type="checkbox"/> Riffles(s) <input type="checkbox"/> N/A		11. Presence of logs or large woody debris in stream: <input checked="" type="checkbox"/> None <input type="checkbox"/> Occasional <input type="checkbox"/> Plentiful		12. Pick the category that best describes the extent to which vegetation shades the stream: <input checked="" type="checkbox"/> 0% <input type="checkbox"/> 50% <input type="checkbox"/> 100% <input type="checkbox"/> 25% <input type="checkbox"/> 75% <input type="checkbox"/> other - %			
b) Approximate width of water flow: <input type="checkbox"/> N/A 150 ft		5. Stream Velocity: <input type="checkbox"/> fast <input type="checkbox"/> moderate <input checked="" type="checkbox"/> slow <input type="checkbox"/> N/A		13. Pick the description that best fits the stream bank and the channel (facing upstream): a) Stream bank: Left Vertical/undercut Right <input checked="" type="checkbox"/> Steeply sloping (>30°) <input checked="" type="checkbox"/> <input type="checkbox"/> Gradual/No slope (<30°) <input type="checkbox"/>		b) Shape of the channel: <input type="checkbox"/> Narrow, Deep Wide, Deep <input checked="" type="checkbox"/> Narrow, Shallow Wide, Shallow <input checked="" type="checkbox"/>			
c) Approximate width of stream: (from top of bank to top of bank) 300 ft		6. Nature of the particles in the stream bottom: silt/clay/mud None Little Some Most sand <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> gravel <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> cobbles (2 - 10" diam.) <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> boulders (> 10" diam.) <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> bedrock <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		7. Presence of naturally occurring organic material in stream: <input type="checkbox"/> None <input checked="" type="checkbox"/> Occasional <input type="checkbox"/> Unknown <input type="checkbox"/> Plentiful		14. Describe the streamside cover. Check "P" if present, "C" if common a) Along the water's edge and stream bank only (facing upstream): Left Right P C P C <input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> Trees <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Bushes, Shrubs <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> Tall grasses, forbs <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Lawn, maintained landscape <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> Boulders/Rocks/Rip Rap <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Gravel/Sand <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Bare Soil <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Pavement, Structures, Gabions		8. Facing upstream, does this stream have <u>tree</u> cover for 50 feet on the: left side yes right side yes What is the % cover of <u>trees</u> per side of the stream? left side 20 % right side 15 % Facing upstream, does this stream have <u>shrub</u> cover for 50 feet on the: left side no right side no What is the % cover of <u>shrubs</u> per side of the stream? Observer initials:	
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Datasheet entered by:

Last Revised: 08/19

Stream Characterization **Date:** 7/30/2019 **Time:** **Site:** ORD TAP **County:** Cook
Field ID: Stream/Ditch **Stream Name:** Willow Creek - Section 8 **Investigators:** BJH, CBM

Weather in the past 24 hours: <input type="checkbox"/> Storm (heavy rain) <input type="checkbox"/> Overcast <input type="checkbox"/> Rain (steady rain) <input type="checkbox"/> Clear/Sunny <input checked="" type="checkbox"/> Showers (intermittent rain)		3. Circle flow regime: EPHEMERAL <input checked="" type="checkbox"/> PERENNIAL 4. Stream habitats present: <input type="checkbox"/> Pool(s) <input checked="" type="checkbox"/> Run(s) <input type="checkbox"/> Riffles(s) <input type="checkbox"/> N/A		9. Water Appearance: <input type="checkbox"/> clear <input type="checkbox"/> milky <input type="checkbox"/> foamy <input type="checkbox"/> turbid <input type="checkbox"/> light brown <input type="checkbox"/> dark brown <input type="checkbox"/> oily sheen <input type="checkbox"/> orange <input type="checkbox"/> none <input type="checkbox"/> greenish <input type="checkbox"/> other:		10. Water Odor: <input type="checkbox"/> sewage <input type="checkbox"/> chlorine <input type="checkbox"/> fishy <input type="checkbox"/> rotten eggs <input type="checkbox"/> organic <input type="checkbox"/> other: none																																																																																															
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Stream Characterization **Date:** 7/17/2019 **Time:** AM **Site:** ORD **County:** Cook
Field ID: Stream/Ditch **Stream Name:** Willow Creek - section 9 **Investigators:** BJH, KAS

Weather in the past 24 hours: <input type="checkbox"/> Storm (heavy rain) <input type="checkbox"/> Overcast <input type="checkbox"/> Rain (steady rain) <input type="checkbox"/> Clear/Sunny <input checked="" type="checkbox"/> Showers (intermittent rain)		3. Circle flow regime: EPHEMERAL <u>PERENNIAL</u> 4. Stream habitats present: <input type="checkbox"/> Pool(s) <input checked="" type="checkbox"/> Run(s) <input checked="" type="checkbox"/> Riffles(s) <input type="checkbox"/> N/A		9. Water Appearance: <input checked="" type="checkbox"/> clear <input type="checkbox"/> milky <input type="checkbox"/> foamy <input type="checkbox"/> turbid <input type="checkbox"/> light brown <input type="checkbox"/> dark brown <input type="checkbox"/> oily sheen <input type="checkbox"/> orange none <input type="checkbox"/> greenish <input type="checkbox"/> <input type="checkbox"/> other:		10. Water Odor: <input type="checkbox"/> sewage <input type="checkbox"/> chlorine <input type="checkbox"/> fishy <input type="checkbox"/> rotten eggs <input type="checkbox"/> organic <input type="checkbox"/> other: <input checked="" type="checkbox"/> none																																																																																																																																																																		
1. a) Approximate depth of water in stream: <input type="checkbox"/> N/A 6 inches to 3 feet b) Approximate width of water flow: <input type="checkbox"/> N/A 45-70 feet c) Approximate width of stream: (from top of bank to top of bank) 120 feet d) Approximate height of banks (channel depth): left 20ft right 20ft e) Approximate depth of pool(s): <input type="checkbox"/> N/A 3 feet		5. Stream Velocity: <input type="checkbox"/> fast <input type="checkbox"/> moderate <input checked="" type="checkbox"/> slow <input type="checkbox"/> N/A 6. Nature of the particles in the stream bottom: <table border="1" style="width:100%; text-align: center;"> <tr> <th></th> <th>None</th> <th>Little</th> <th>Some</th> <th>Most</th> </tr> <tr> <td>silt/clay/mud</td> <td></td> <td></td> <td></td> <td>X</td> </tr> <tr> <td>sand</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>gravel</td> <td></td> <td>X</td> <td></td> <td></td> </tr> <tr> <td>cobbles (2 - 10" diam.)</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>boulders (> 10" diam.)</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>bedrock</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>			None	Little	Some	Most	silt/clay/mud				X	sand					gravel		X			cobbles (2 - 10" diam.)					boulders (> 10" diam.)					bedrock					11. Presence of logs or large woody debris in stream: <input type="checkbox"/> None <input checked="" type="checkbox"/> Occasional <input type="checkbox"/> Plentiful																																																																																																																																	
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X	Fish	minnow-like, carp																																																																																																																																																																						
19. Additional Comments steep sided, top of bank vegetated; wracking obvious 1-2 ft high on bank, tributary from north flows into WH East at bridge, banks range from sloped and muddy to vertical with minimal undercutting.																																																																																																																																																																								
Datasheet entered by:				Last Revised: 08/19																																																																																																																																																																				

Appendix K. Field Photographs



Photo 1. Bensenville Ditch - Section 1, General site



Photo 2. Bensenville Ditch - Section 1, General site, View to the southeast



Photo 3. Bensenville Ditch - Section 1, Box culvert. View to the southwest



Photo 4. Bensenville Ditch - Section 2, General site, east end. View to the west



Photo 5. Bensenville Ditch - Section 2, General site, west end. View to the east



Photo 6. Bensenville Ditch - Section 2, General site, west end. View to the west



Photo 7. Bensenville Ditch - Section 2, East end, double culvert exit. View to the east



Photo 8. Bensenville Ditch - Section 2, East end, double culvert. View to the north



Photo 9. Bensenville Ditch - Section 2, General site, side culvert. View to the north



Photo 10. Crystal Creek - Section 1, General site, View to the south



Photo 11. Crystal Creek - Section 1, General site, outfall. View to the north



Photo 12. Crystal Creek - Section 1, General site, View to the south



Photo 13. Crystal Creek - Section 1, General site, View to the north



Photo 14. Crystal Creek - Section 2, General site, View to the south



Photo 15. Crystal Creek - Section 2, General site, View to the north



Photo 16. Crystal Creek - Section 2, General site, culvert exit. View to the southeast



Photo 17. Crystal Creek - Section 3, General site, View to the north



Photo 18. Crystal Creek - Section 3, Box culvert under Manheim Road



Photo 19. Crystal Creek - Section 4, General site, View to the north



Photo 20. Crystal Creek - Section 4, General site, boom. View to the southeast



Photo 21. Crystal Creek - Section 4, Box culvert under I294. View to the east



Photo 22. Crystal Creek - Section 4, Culvert View to the north



Photo 23. Crystal Creek - Section 4, General site, View to the south



Photo 24. Crystal Creek - Section 4, General site, View to the north



Photo 25. Ditch 01, South culvert, View to the east



Photo 26. Ditch 01, General site, View to the south



Photo 27. Ditch 01, South culvert, View to the west



Photo 28. Ditch 01, General site, View to the north



Photo 29. Ditch 02, General site, View to the south



Photo 30. Ditch 02, General site, View to the east



Photo 31. Ditch 03, General site, View to the east



Photo 32. Ditch 03, General site, View to the west



Photo 33. Ditch 03, East culvert



Photo 34. Ditch 03, West culvert



Photo 35. Ditch 04, General site, north section. View to the north



Photo 36. Ditch 04, General site, south section. View to the north